

GenCore version 5.1.6
 Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 18, 2004, 12:08:12 ; Search time 48 Seconds

(without alignments)
 2104.352 Million cell updates/sec

Title: US-10-049-569-2
 Perfect score: 1858

Sequence: 1 MGPGEAIIAGLGLVYTLAVL.....ASTHGSYVDTENDSCLQOTH 363

Scoring table: BLOSUM62

Gapop 10.0 , Gapxt 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

1: /cn2_6_ptodata/1/pubpa/US07_PUBCOMB.pep:*

2: /cn2_6_ptodata/1/pubpa/PCT_NEW_PUB.pep:*

3: /cn2_6_ptodata/1/pubpa/US07_NEW_PUB.pep:*

4: /cn2_6_ptodata/1/pubpa/US06_PUBCOMB.pep:*

5: /cn2_6_ptodata/1/pubpa/US07_NEW_PUB.pep:*

6: /cn2_6_ptodata/1/pubpa/US07_PUBCOMB.pep:*

7: /cn2_6_ptodata/1/pubpa/US08_NEW_PUB.pep:*

8: /cn2_6_ptodata/1/pubpa/US09A_PUBCOMB.pep:*

9: /cn2_6_ptodata/1/pubpa/US09A_PUBCOMB.pep:*

10: /cn2_6_ptodata/1/pubpa/US09C_PUBCOMB.pep:*

11: /cn2_6_ptodata/1/pubpa/US09C_PUBCOMB.pep:*

12: /cn2_6_ptodata/1/pubpa/US09_NEW_PUB.pep:*

13: /cn2_6_ptodata/1/pubpa/US10A_PUBCOMB.pep:*

14: /cn2_6_ptodata/1/pubpa/US10B_PUBCOMB.pep:*

15: /cn2_6_ptodata/1/pubpa/US10C_PUBCOMB.pep:*

16: /cn2_6_ptodata/1/pubpa/US10C_NEW_PUB.pep:*

17: /cn2_6_ptodata/1/pubpa/US60_NEW_PUB.pep:*

18: /cn2_6_ptodata/1/pubpa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

1 1858 100.0 363 9 US-09-736-131-2 Sequence 2, Appli

2 1858 100.0 363 10 US-09-736-131-2 Sequence 1, Appli

3 1858 100.0 363 12 US-10-206-915-590 Sequence 590, APP

4 1858 100.0 363 12 US-10-199-670-590 Sequence 590, APP

5 1858 100.0 363 12 US-10-201-858-590 Sequence 590, APP

6 1858 100.0 363 12 US-10-205-890-590 Sequence 590, APP

7 1858 100.0 363 12 US-10-208-024-590 Sequence 590, APP

8 1858 100.0 363 12 US-10-201-853-590 Sequence 590, APP

9 1858 100.0 363 12 US-10-174-581-590 Sequence 590, APP

10 1858 100.0 363 12 US-10-176-483-590 Sequence 590, APP

11 1858 100.0 363 12 US-10-176-749-590 Sequence 590, APP

12 1858 100.0 363 12 US-10-176-914-590 Sequence 590, APP

13 1858 100.0 363 12 US-10-176-915-590 Sequence 590, APP

14 1858 100.0 363 12 US-10-176-984-590 Sequence 590, APP

15 1858 100.0 363 12 US-10-180-550-590 Sequence 590, APP

ALIGNMENTS

US-09-736-131-2
 Sequence 2, Application US/09736131
 Patent No. US20020019347A1
 GENERAL INFORMATION:
 APPLICANT: GUBGLER, et al.
 TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR
 TITLE OF INVENTION: PROTEINS, AND USES THEREOF
 FILE REFERENCE: CL000738
 CURRENT APPLICATION NUMBER: US/09/736,131
 CURRENT FILING DATE: 2001-08-23
 PRIOR APPLICATION NUMBER: 60/219,449
 PRIOR FILING DATE: 2000-07-20
 NUMBER OF SEQ ID NOS: 4
 SEQ ID NO: 2
 SOFTWARE: FastSBQ for Windows Version 4.0
 LENGTH: 363
 TYPE: PRT
 ORGANISM: Human
 US-09-736-131-2

PRIOR FILING DATE: 1997-10-28
 PRIOR APPLICATION NUMBER: 60/063541
 PRIOR FILING DATE: 1997-10-28
 PRIOR APPLICATION NUMBER: 60/063544
 PRIOR FILING DATE: 1997-10-28
 Prior application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 612
 SEQ ID NO: 590
 LENGTH: 363
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-10-201-658-590

Query Match 100.0%; Score 1888; DB 12; Length 363;
 Best Local Similarity 100.0%; Pred. No. 2.4e-169;
 Matches 363; Conservative 0; Mismatches 0; Gaps 0;
 QY 1 MGPGEALLAGLIVMVLAVALLISNALVLLCAYSAELRTRASGVLLVNLIGHILLAAALDM 60
 Db 1 MGPGEALLAGLIVMVLAVALLISNALVLLCAYSAELRTRASGVLLVNLIGHILLAAALDM 60
 QY 61 PFTLIGMVRGRTPSAGCQVIGFLDTFLASNAALSVAAASDOWLAVGFLRYAGRLLP 120
 Db 61 PFTLIGMVRGRTPSAGCQVIGFLDTFLASNAALSVAAASDOWLAVGFLRYAGRLLP 120
 QY 121 RYAGLIGCANGQSLAFSGAALGCSMIGYSSAFAASCSSLRIPPERPRAAFTATLHAVG 180
 Db 121 RYAGLIGCANGQSLAFSGAALGCSMIGYSSAFAASCSSLRIPPERPRAAFTATLHAVG 180
 QY 181 FVPLPLAVLCLTSLOVERVARRHQCMDTVTMKALLLADLHPSYTRQRCQIQQRRRRAAT 240
 Db 181 FVPLPLAVLCLTSLOVERVARRHQCMDTVTMKALLLADLHPSYTRQRCQIQQRRRRAAT 240
 QY 241 RKGIAIAFLICFAPYVMTRLAELVPFVTVNAQNGILSCKLTVSKAVADPFTYSSLRPP 300
 Db 241 RKGIAIAFLICFAPYVMTRLAELVPFVTVNAQNGILSCKLTVSKAVADPFTYSSLRPP 300
 QY 301 FRQVLAGMVRHLKTRPASTHDSSLVAGMVKOLLKTRPRASTHNSVDTENDSCLQ 360
 Db 301 FRQVLAGMVRHLKTRPASTHDSSLVAGMVKOLLKTRPRASTHNSVDTENDSCLQ 360
 QY 361 QTH 363
 Db 361 QTH 363

RESULT 6
 US-10-205-890-590
 Sequence 590. Application US/10205890
 Publication No. US20040048334A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Chen, Jian P.
 APPLICANT: Desnoyers, Luc
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Pan, James S.
 APPLICANT: Smith, Victoria
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 TITLE OF INVENTION: ACIDS ENCODING THE SAME
 FILE REFERENCE: P430RAC519
 CURRENT APPLICATION NUMBER: US10/205, 890
 CURRENT FILING DATE: 2002-07-26
 PRIOR FILING DATE: 2002-01-15
 PRIOR APPLICATION NUMBER: 60/059563
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059266
 PRIOR FILING DATE: 1997-09-18

PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/063120
 PRIOR FILING DATE: 1997-10-24
 PRIOR APPLICATION NUMBER: 60/063121
 PRIOR FILING DATE: 1997-10-24
 PRIOR APPLICATION NUMBER: 60/063486
 PRIOR FILING DATE: 1997-10-21
 PRIOR APPLICATION NUMBER: 60/063540
 PRIOR FILING DATE: 1997-10-28
 PRIOR APPLICATION NUMBER: 60/063541
 PRIOR FILING DATE: 1997-10-28
 PRIOR APPLICATION NUMBER: 60/063544
 PRIOR FILING DATE: 1997-10-28
 Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 612
 SEQ ID NO: 590
 LENGTH: 363
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-10-205-890-590

Query Match 100.0%; Score 1858; DB 12; Length 363;
 Best Local Similarity 100.0%; Pred. No. 2.4e-169;
 Matches 363; Conservative 0; Mismatches 0; Gaps 0;
 QY 1 MGPGEALLAGLIVMVLAVALLISNALVLLCAYSAELRTRASGVLLVNLIGHILLAAALDM 60
 Db 1 MGPGEALLAGLIVMVLAVALLISNALVLLCAYSAELRTRASGVLLVNLIGHILLAAALDM 60
 QY 61 PFTLIGMVRGRTPSAGCQVIGFLDTFLASNAALSVAAASDOWLAVGFLRYAGRLLP 120
 Db 61 PFTLIGMVRGRTPSAGCQVIGFLDTFLASNAALSVAAASDOWLAVGFLRYAGRLLP 120
 QY 121 RYAGLIGCANGQSLAFSGAALGCSMIGYSSAFAASCSSLRIPPERPRAAFTATLHAVG 180
 Db 121 RYAGLIGCANGQSLAFSGAALGCSMIGYSSAFAASCSSLRIPPERPRAAFTATLHAVG 180
 QY 181 FVPLPLAVLCLTSLOVERVARRHQCMDTVTMKALLLADLHPSYTRQRCQIQQRRRRAAT 240
 Db 181 FVPLPLAVLCLTSLOVERVARRHQCMDTVTMKALLLADLHPSYTRQRCQIQQRRRRAAT 240
 QY 241 RKGIAIAFLICFAPYVMTRLAELVPFVTVNAQNGILSCKLTVSKAVADPFTYSSLRPP 300
 Db 241 RKGIAIAFLICFAPYVMTRLAELVPFVTVNAQNGILSCKLTVSKAVADPFTYSSLRPP 300
 QY 301 FRQVLAGMVRHLKTRPASTHDSSLVAGMVKOLLKTRPRASTHNSVDTENDSCLQ 360
 Db 301 FRQVLAGMVRHLKTRPASTHDSSLVAGMVKOLLKTRPRASTHNSVDTENDSCLQ 360
 QY 361 QTH 363
 Db 361 QTH 363

RESULT 7
 US-10-208-024-590
 Sequence 590. Application US/10208024
 Publication No. US20040048335A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Chen, Jian P.
 APPLICANT: Desnoyers, Luc
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Pan, James S.
 APPLICANT: Smith, Victoria
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 TITLE OF INVENTION: ACIDS ENCODING THE SAME
 FILE REFERENCE: P430RAC519
 CURRENT APPLICATION NUMBER: US10/205, 890
 CURRENT FILING DATE: 2002-07-26
 PRIOR FILING DATE: 2002-01-15
 PRIOR APPLICATION NUMBER: 60/059563
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059266
 PRIOR FILING DATE: 1997-09-18

FILE REFERENCE: P3430R1C538
 CURRENT FILING DATE: 2002-07-29
 PRIOR APPLICATION NUMBER: 10/052586
 PRIOR FILING DATE: 2002-01-15
 PRIOR APPLICATION NUMBER: 10/052583
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059266
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-24
 PRIOR APPLICATION NUMBER: 60/063121
 PRIOR FILING DATE: 1997-10-24
 PRIOR APPLICATION NUMBER: 60/063486
 PRIOR FILING DATE: 1997-10-21
 PRIOR APPLICATION NUMBER: 60/063540
 PRIOR FILING DATE: 1997-10-28
 PRIOR APPLICATION NUMBER: 60/063541
 PRIOR FILING DATE: 1997-10-28
 PRIOR APPLICATION NUMBER: 60/063544
 PRIOR FILING DATE: 1997-10-28
 PRIOR Application data removed - See File Wrapper or PALM.
 SEQ ID NO: 590
 LENGTH: 363
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-10-208-024-590

Query Match 100.0% Score 1858; DB 12; Length 363;
 Best Local Similarity 100.0% Pred. No. 2.4e-169;
 Matches 363; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGPGEALLAGLILVNLAYLILSALVILCCASAELTRASGVLLNLIGHLLAALDM 60
 Db 1 MGPGEALLAGLILVNLAYLILSALVILCCASAELTRASGVLLNLIGHLLAALDM 60

Qy 61 PFTLGMVRGRTPSAGACQVIGFLDTPLASNALSYAALSDQWILVPLRYAGRLRP 120
 Db 61 PFTLGMVRGRTPSAGACQVIGFLDTPLASNALSYAALSDQWILVPLRYAGRLRP 120

Qy 121 RYAGLILGCAWGOSLAFGAGLGSWIGSYASAFASCSLRPPERFRAFTTLHVG 180
 Db 121 RYAGLILGCAWGOSLAFGAGLGSWIGSYASAFASCSLRPPERFRAFTTLHVG 180

Qy 181 FVPLAVLCLTSLOVHRARRHQRMDTTMKAALLADLPSVRQCLQKRRHAT 240
 Db 181 FVPLAVLCLTSLOVHRARRHQRMDTTMKAALLADLPSVRQCLQKRRHAT 240

Qy 241 RKGIAATFLICPAPYMTTLLAEVPPVTVQAGLILSKCITYSKAVADPFTYSLLRP 300
 Db 241 RKGIAATFLICPAPYMTTLLAEVPPVTVQAGLILSKCITYSKAVADPFTYSLLRP 300

Qy 301 FROVLAGMYHLRKTRPRASTHDSSLDVAGMWHQLKRTPRPASTINGSVDTENDSCLQ 360
 Db 301 FROVLAGMYHLRKTRPRASTHDSSLDVAGMWHQLKRTPRPASTINGSVDTENDSCLQ 360

Qy 361 QTH 363
 Db 361 QTH 363

RESULT 8
 US-10-201-853-590
 Sequence 590, Application US/10201853
 Publication No. US20040053358A1
 GENERAL INFORMATION:
 / APPLICANT: Baker, Kevin P.
 / APPLICANT: Chan, Jian
 / APPLICANT: Denoyer, Luc
 / APPLICANT: Goddard, Audrey

RESULT 9

US-10-174-581-590
 Sequence 590, Application US/10174581
 Publication No. US20030017540A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
 APPLICANT: Chen, Jian
 APPLICANT: Dsnoyers, Luc
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Pan, James
 APPLICANT: Smith, Victoria
 APPLICANT: Watanahe, Colin K.
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

FILE REFERENCE: P343081C41

CURRENT APPLICATION NUMBER: US/10/174,581.

CURRENT FILING DATE: 2002-06-18

PRIOR APPLICATION NUMBER: 10/052586
 PRIOR FILING DATE: 2002-01-15

PRIOR APPLICATION NUMBER: 60/059263
 PRIOR FILING DATE: 1997-09-18

PRIOR APPLICATION NUMBER: 60/059266
 PRIOR FILING DATE: 1997-09-18

PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/063120
 PRIOR FILING DATE: 1997-10-24

PRIOR APPLICATION NUMBER: 60/065121
 PRIOR FILING DATE: 1997-10-24

PRIOR APPLICATION NUMBER: 60/0653486
 PRIOR FILING DATE: 1997-10-21

PRIOR APPLICATION NUMBER: 60/063540
 PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/063541
 PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/063544
 PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/063546
 PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/063548
 PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/063734
 PRIOR FILING DATE: 1997-10-29

PRIOR APPLICATION NUMBER: 60/063870
 PRIOR FILING DATE: 1997-10-31

PRIOR APPLICATION NUMBER: 60/064103
 PRIOR FILING DATE: 1997-10-31

PRIOR APPLICATION NUMBER: 60/065311
 PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066120
 PRIOR FILING DATE: 1997-11-21

PRIOR APPLICATION NUMBER: 60/066466
 PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/066772
 PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/068017
 PRIOR FILING DATE: 1997-12-01

PRIOR APPLICATION NUMBER: 60/069425
 PRIOR FILING DATE: 1997-12-12

PRIOR APPLICATION NUMBER: 60/069870
 PRIOR FILING DATE: 1998-03-11

PRIOR APPLICATION NUMBER: 60/076449
 PRIOR FILING DATE: 1998-03-11

PRIOR APPLICATION NUMBER: 60/078896
 PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/078939
 PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/079664
 PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: 60/079786
 PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: 60/080107
 PRIOR FILING DATE: 1998-03-31

PRIOR APPLICATION NUMBER: 60/08194
 PRIOR FILING DATE: 1998-03-31

PRIOR APPLICATION NUMBER: 60/080327
 PRIOR FILING DATE: 1998-04-01

PRIOR APPLICATION NUMBER: 60/080333
 PRIOR FILING DATE: 1998-04-01

PRIOR APPLICATION NUMBER: 60/081049
 PRIOR FILING DATE: 1998-04-08

PRIOR APPLICATION NUMBER: 60/081070
 PRIOR FILING DATE: 1998-04-08

PRIOR APPLICATION NUMBER: 60/081195
 PRIOR FILING DATE: 1998-04-09

PRIOR APPLICATION NUMBER: 60/081838
 PRIOR FILING DATE: 1998-04-15

PRIOR APPLICATION NUMBER: 60/082568
 PRIOR FILING DATE: 1998-04-21

PRIOR APPLICATION NUMBER: 60/082569
 PRIOR FILING DATE: 1998-04-21

PRIOR APPLICATION NUMBER: 60/082704
 PRIOR FILING DATE: 1998-04-22

PRIOR APPLICATION NUMBER: 60/082797
 PRIOR FILING DATE: 1998-04-22

PRIOR APPLICATION NUMBER: 60/083322
 PRIOR FILING DATE: 1998-04-29

PRIOR APPLICATION NUMBER: 60/083495
 PRIOR FILING DATE: 1998-04-29

PRIOR APPLICATION NUMBER: 60/083496
 PRIOR FILING DATE: 1998-04-29

PRIOR APPLICATION NUMBER: 60/083499
 PRIOR FILING DATE: 1998-04-29

PRIOR APPLICATION NUMBER: 60/083559
 PRIOR FILING DATE: 1998-04-29

PRIOR APPLICATION NUMBER: 60/084366
 PRIOR FILING DATE: 1998-05-05

PRIOR APPLICATION NUMBER: 60/084414
 PRIOR FILING DATE: 1998-05-06

PRIOR APPLICATION NUMBER: 60/084639
 PRIOR FILING DATE: 1998-05-07

PRIOR APPLICATION NUMBER: 60/084640
 PRIOR FILING DATE: 1998-05-07

PRIOR APPLICATION NUMBER: 60/084643
 PRIOR FILING DATE: 1998-05-07

PRIOR APPLICATION NUMBER: 60/085573
 PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/085579
 PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/085580
 PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/085582
 PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/085700
 PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/086023
 PRIOR FILING DATE: 1998-05-18

PRIOR APPLICATION NUMBER: 60/086392
 PRIOR FILING DATE: 1998-05-22

PRIOR APPLICATION NUMBER: 60/086486
 PRIOR FILING DATE: 1998-05-22

PRIOR APPLICATION NUMBER: 60/087098
 PRIOR FILING DATE: 1998-05-28

PRIOR APPLICATION NUMBER: 60/087208
 PRIOR FILING DATE: 1998-05-28

PRIOR APPLICATION NUMBER: 60/087609
 PRIOR FILING DATE: 1998-06-02

PRIOR APPLICATION NUMBER: 60/087759

RESULT 11
 US-10-176-749-590
 ; Sequence 590, Application US/10176749
 ; Publication No. US20030017542A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Chen, Jian
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Pan, James
 ; APPLICANT: Smith, Victoria L.
 ; APPLICANT: Watanabe, Colin K.
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE REFERENCE: P34301C76
 ; CURRENT APPLICATION NUMBER: US/10/176,749
 ; CURRENT FILING DATE: 2002-06-20
 ; CURRENT APPLICATION removed - See File Wrapper or Palm
 ; NUMBER OF SEQ ID NOS: 612
 ; SEQ ID NO 590
 ; LENGTH: 363
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-10-176-749-590

Query Match 100.0%; Score 1858; DB 12; Length 363;
 Best Local Similarity 100.0%; Pred. No. 2.4e-169;
 Matches 363; Conservative 0; Indels 0; Gaps 0;

Qy 1 MGPGEALLAGLIVMVLAVLNSNALVLLCAYSAELRTRASGVLLVNLISGHLLAALDM 60
 Db 1 PFTLLGVMGRGTPSAPACQVGFDTFLSNAALSAVQASLRLPFLYAGRLLP 120
 Qy 61 PFTLLGVMGRGTPSAPACQVGFDTFLSNAALSAVQASLRLPFLYAGRLLP 120
 Db 61 PFTLLGVMGRGTPSAPACQVGFDTFLSNAALSAVQASLRLPFLYAGRLLP 120

Qy 121 RYAGLIGCANGQSLAFSGAALGCSWLGYSFAFASLRLPFLYAGRLLP 180
 Db 121 RYAGLIGCANGQSLAFSGAALGCSWLGYSFAFASLRLPFLYAGRLLP 180

Qy 181 FVPLAVLCLISLQHVARHQCQMDTVTMKALALLADLHPSPQRCLQKERRQRRHAT 240
 Db 181 FVPLAVLCLISLQHVARHQCQMDTVTMKALALLADLHPSPQRCLQKERRQRRHAT 240

Qy 241 RKGIAATFLICPAPYTMTRIAELYFVFTYNAQNGILSKCITYSKAVADPFTYSLRRP 300
 Db 241 RKGIAATFLICPAPYTMTRIAELYFVFTYNAQNGILSKCITYSKAVADPFTYSLRRP 300

Qy 301 FQVLAGMVHRLKRTPRAPTHDSSLDVAGMVHQLKRTPRAPSTHGSVDTENDSCLQ 360
 Db 301 FQVLAGMVHRLKRTPRAPTHDSSLDVAGMVHQLKRTPRAPSTHGSVDTENDSCLQ 360

Qy 361 QTH 363
 Db 361 QTH 363

RESULT 12
 US-10-176-914-590
 ; Sequence 590, Application US/10176914
 ; Publication No. US20030017543A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Chen, Jian
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Pan, James
 ; APPLICANT: Smith, Victoria L.
 ; APPLICANT: Watanabe, Colin K.
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Zhang, Zemin

US-10-176-484-590
Query Match
 Best Local Similari
 Matches 363; C
 Qy 1 MGPPR 1 MGPPR
 Db 1 MGPPR 1 MGPPR
 Qy 61 PFTL 61 PFTL
 Db 121 RYAC 121 RYAC
 Qy 121 RYAC 121 RYAC
 Db 181 FVLL 181 FVLL
 Qy 301 FROJ 301 FROJ
 Db 301 FROJ 301 FROJ
 Qy 241 RKIC 241 RKIC
 Db 241 RKIC 241 RKIC
 Qy 361 QTH 361 QTH
 Db 361 QTH 361 QTH

RESULT 15
 US-10-100-550-590
 / Sequence 590, At
 / Publication No.
 / GENERAL INFORMATION
 / APPLICANT: Bakker, Che
 / APPLICANT: De
 / APPLICANT: Go
 / APPLICANT: Gu
 / APPLICANT: Par
 / APPLICANT: Sim
 / APPLICANT: Wa
 / APPLICANT: Wo
 / APPLICANT: Zhi
 / TITLE OF INVENT
 / TITLE OF INVENT
 / FILE REFERENCE
 / CURRENT APPLICA
 / CURRENT FILING
 / Prior applicat
 / NUMBER OF SEQ
 / SEQ ID NO 590
 / LENGTH: 363
 / TYPE: PRT
 / ORGANISM: Hom
 US-10-180-550-590

Query Match
 Best Local Similari
 Matches 363; C
 Qy 1 MGP 1 MGP
 Db 1 MGP 1 MGP
 Qy 61 PFT 61 PFT

Db	61	PFTLIGWGRTPAPGACQVIGFLDPLASNALSYAALSADQWLAVGFPYRAGRLP	120
Qy	121	RYASILLGGAWGOSLAFSGAALGCSWIGYSASAFCSCSLRPPPEPERPRAAFTATLHVG	180
Db	121	RYAGILLGCAWGQSLAFSAALGCSWIGYSASAFCSCSLRPPPEPERPRAAFTATLHVG	180
Qy	181	FVLPLAVLCLTSLOVHRVARRHCORMDTVTMKALALADLHPSVRORCLQKRRHRT	240
Db	181	FVLPLAVLCLTSLOVHRVARRHCORMDTVTMKALALADLHPSVRQRCLQKRRHRT	240
Qy	241	RKIGIAIAFLICAPYMTTRALBLVPPFTVNAQWGLSKCUTYSKAVADPPTYSLLRP	300
Db	241	RKIGIAIAFLICAPYMTTRALBLVPPFTVNAQWGLSKCUTYSKAVADPPTYSLLRP	300
Qy	301	FQVLAGMVRLLKRTPRPANTHSSLDVAGMFMQLKRTPRASTHSGVDTENDSCLQ	360
Db	301	FQVLAGMVRLLKRTPRPANTHSSLDVAGMFMQLKRTPRASTHSGVDTENDSCLQ	360
Qy	361	QTH 363	
Db	361	QTH 363	

Search completed: May 18, 2004, 12:14:05
 Job time : 50 secs

A;Accession: JN0605
A;Molecule type: DNA
A;Residues: 1-388 <XRY>
A;Cross-references: GB:LL14856; NID:G292499; PIDN:AAA36623.1; PID:9292500
A;Yamada, Y.; Kagoishi, S.; Kubota, K.; Yasuda, K.; Masuda, K.; Someya, Y.; Ihara, Y.; L.
Biochim. Biophys. Res. Commun. 195, 84-87; 1993
A;Title: Cloning, functional expression and pharmacological characterization of a fourth
A;Cross-references: GB:LL14856; NID:G292499; PIDN:AAA36623.1; PID:9292500
A;Accession: JN0762
A;Accession: JN0762
A;Molecule type: DNA
A;Residues: 1-388 <XRY>
A;Cross-references: GB:DL16826; NID:G993907; PIDN:BA004106.1; PID:9693908
A;Röller, L.; Rauti, F.; Bruns, C.; Bueteler, R.; Hofstaetter, R.; Schule, R.
Proc. Natl. Acad. Sci. U.S.A. 90, 4166-4200; 1993
A;Title: Cloning and characterization of a fourth human somatostatin receptor.
A;Cross-references: GB:LL14856; NID:G292499; PIDN:AAA36623.1; PID:9292500
A;Accession: JN0762
A;Accession: JN0762
A;Molecule type: DNA
A;Residues: 1-82 / 'T' 84-364 / 'K' 366-388 <RHO>
A;Cross-references: GB:LU70733; NID:9107439; PIDN:AAA6055.1; PID:9307430
A;Accession: JN0762
A;Note: sequence extracted from NCBI backbone (NCBIn:130856; NCBI:130858)
C;Comment: This protein mediates the diverse actions of the tetrapeptide somatostatin.

C:Genetics:						
A:Gene: GDB:SSTR4						
A:Cross-references: GDB:202662; OMIM:182454						
A:Map position: 20p11.2-20p11.2						
A:Introns: #status absent						
C:Superfamily: vertebrate rhodopsin						
C:Keywords: G protein-coupled receptor; glycoprotein; hormone receptor; lipoprotein; phosphoprotein; rhodopsin						
F:47-73/Domain: transmembrane #status predicted <TM1>						
F:84-109/Domain: transmembrane #status predicted <TM2>						
F:121-142/Domain: transmembrane #status predicted <TM3>						
F:163-184/Domain: transmembrane #status predicted <TM4>						
F:208-238/Domain: transmembrane #status predicted <TM5>						
F:257-284/Domain: transmembrane #status predicted <TM6>						
F:299-314/Domain: transmembrane #status predicted <TM7>						
F:119-134/Binding site: carbohydrate (Asn) (covalent) #status predicted						
F:119-198/Disulfide bonds: #status predicted						
F:161-255/Binding site: phosphate (Ser) (covalent) #status predicted						
F:327/Binding site: palmitate (Cys) (covalent) #status predicted						
Query Match 13.1%; Score 243.5; DB 2; Length 388;						
Best Local Similarity 25.5%; Pred. No. 6.9e-13; Gaps 10;						
Matches 84; Conservative 55; Mismatches 124; Deletions 67; Gaps 10;						
Qy 2 GPGPALLAGL-----VMMVLAVALLSNALVILCACYSAELRTRASGVLLVNLSLGHILL 55						
Db 38 GPGIDARAAGMVAQCICATVLCVGLVNEALTVIFVILRYAKMT-ATNIYILNLADELPH 96						
Qy 56 AAALDMPPTLIGVNRGRTPSAPGQCVNGFLDTFLASNMTAALSVAALSDQWLVAVGFLPLRYA 115						
Db 97 -M.LSVPVYASSAALRHPFEGSVLCKRAVLSDVCLNMNTSVFCLTVLSVDRYAVVHFLRAA 155						
Qy 116 GRDPYRAGLLOCAGNSI-----ASFGAAAGGS--WLGYSAPASCRLR 159						
Db 156 TYRREPSVAKLNLIGWNLASLLVTPIAIFADTRPARGQAVACN1QW----- 202						
Qy 160 LPPPERPRFAAFTATHAVGFLPLAVLCLTSLQVHVARRHQCMDTIVTMKAALLAD 219						
Db 203 -----PHPAWSAVVYVTFLLGFLVPLAIG-----CIVLIVVCRMRAVALRAG 246						
Qy 220 LHPVQRQCLIQQRRRHRAKTRKIGIAATLFLICAPYVMTRLAELYPFTVNAQWGILS 279						
Db 247 WQ-----QRRRSERKTKITVLLMWWVVFVLCMNPFFYVQLLNLV-VTSLDATVNHVS 296						
Qy 280 KCLTYSKAVADPPTYSLL-----RRPFFPQL 305						
Db 297 LILSYANSCANPILYGFESDNFRSPQRVL 326						

N, Alternate names: 5-hydroxytryptamine receptor 6 (5-HTR6)
 C; Species: *Rattus norvegicus* (Norway rat)
 C; Accession: TN0591
 C; Definition: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 05-Nov-1999
 R; Tardivel, M.; Traiffort, E.; Arrang, J.M.; Tardivel-Lacomba, J.; Diaz, J.; Leurs, R.; Schwab, Biochem. Biophys. Res. Commun. 198, 268-276, 1993
 A; Title: A novel rat serotonin (5-HT6) receptor: molecular cloning, localization and sti
 A; Reference number: JN0391; MUID:93277562; PMID:8389146
 A; Accession: JN0591
 A; Molecule type: DNA
 A; Residues: 11-336 <RUA>
 A; Cross-references: GB:SS62043; NID:AA26908.1; PID:9385709
 C; Genetics:
 C; Superfamily: 23B.3
 C; Keywords: glycoprotein; neurotransmitter receptor; transmembrane protein
 C; Residues: 1-336 <RUA>
 C; Superfamily: vertebrate rhodopsin
 C; Residues: 1-336 <RUA>
 C; Superfamily: neurotransmitter receptor; transmembrane protein
 F; 63-84/Domain: transmembrane #status predicted <TM1>
 F; 95-122/Domain: transmembrane #status predicted <TM2>
 F; 185-213/Domain: transmembrane #status predicted <TM3>
 F; 267-293/Domain: transmembrane #status predicted <TM4>
 F; 297-319/Domain: transmembrane #status predicted <TM5>
 F; 9/Binding site: carbohydrate (Asn) (covalent) #status predicted
 Query Match 12.9% Score 239; DB 2; Length 436;
 Best Local Similarity 25.7%; Pred. No. 1.9e-12;
 Matches 85; Conservative 58; Mismatches 146; Indels 42; Gaps 11;
 Qy 2 GPGEA-----LIGGLVNLAVALLSNALVLCGAYSELRTRASGVLLVNLUGHL 53
 Db 16 GPGPAPPAGGSGWBAALCIVVILVTAANSLIVLICRQLPRLNT--SNFFLVSLSFTSDL 73
 Qy 54 LLALADMPPFLGIVNRRGRPSAPGACQVGTFLDFLNASLVAALSADQNLAVGFLPLR 113
 Db 74 MVGLVYMPPLMLNAYGRWYIQLGCLLWTADFVCCSASILNLCLISLDRYLILSPLR 133
 Qy 114 YAGRL-RPVAGLILGCAQSLA---FSGAALGCSMLGQSSAFASCSRLLPPEPRP 168
 Db 134 YKLRTTAPSLPLALITG-AW-SLAALASPLPLLGWHBLGKART-----PAFGQCR 181
 Qy 169 FAA---FTADLHAYGFVLPALVCTLSLQYHVARRHQMLDTVT-----MKALALLA 218
 Db 182 LLASLSPFLVWASGTYTFPLSGAICFTYCRILLAARKQAVQVSLTGTAGQALELTVQPR 241
 Qy 219 DLHPSVR---QRCUQKRRRERATRKIGIAATFLICFAPYVMTRLAELVPPFTVNAQ 274
 Db 242 TPRPMESASRSRRLAKHRAKAKASITLIGLGMFFTVLFFFVANIAQAVCDISPGI 301
 Qy 275 WGILSKLTSVSKAVADPFPYSLRPFQVY 305
 Db 302 FDVLT-WLGICNSTMNPITYPLFMDFKRAL 331

RESULT 5
 JC4120 histamine H2 receptor - guinea pig
 C; Species: *Carica porcina* (guinea pig)
 C; Definition: 27-Aug-1995 #sequence_revision 19-Oct-1995 #text_change 24-Nov-1999
 C; Accession: JC4120
 R; Traiffort, E.; Vizuete, M.L.; Tardivel-Lacomba, J.; Souil, E.; Schwartz, J.C.; Ruat, M.
 Biochem. Biophys. Res. Commun. 211, 570-577, 1995
 A; Title: The guinea pig histamine H2 receptor: gene cloning, tissue expression and chrom
 A; Reference number: JC4120; MUID:95314628; PMID:7794271
 A; Accession: JC4120
 A; Molecule type: DNA
 A; Residues: 1-359 <TRA>
 C; Comment: Histamine, a messenger molecule in cell-to-cell communication, affects its ta
 ly defined receptor subtypes named H1, H2 and H3.
 C; Superfamily: vertebrate rhodopsin
 C; Keywords: glycoprotein; phosphoprotein; receptor; transmembrane protein
 F; 22-45/Domain: transmembrane #status predicted <TM1>
 F; 56-81/Domain: transmembrane #status predicted <TM2>

F; 93-113/Domain: transmembrane #status predicted <TM3>
 F; 135-157/Domain: transmembrane #status predicted <TM4>
 F; 179-205/Domain: transmembrane #status predicted <TM5>
 F; 225-246/Domain: transmembrane #status predicted <TM6>
 F; 265-289/Domain: transmembrane #status predicted <TM7>
 F; 4-162,168/Binding site: carbohydrate (Asn) (covalent) #status predicted
 F; 222,316/Binding site: phosphate (Ser) (covalent) (by protein kinase C) #status predicted
 F; 226,357/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predicted
 A; Accession: JN0591
 A; Molecule type: DNA
 A; Residues: 11-336 <RUA>
 A; Cross-references: GB:SS62043; NID:AA26908.1; PID:9385709
 C; Genetics:
 C; Superfamily: 23B.3
 C; Keywords: glycoprotein; neurotransmitter receptor; transmembrane protein
 C; Residues: 1-336 <RUA>
 C; Superfamily: vertebrate rhodopsin
 C; Residues: 1-336 <RUA>
 C; Superfamily: neurotransmitter receptor; transmembrane protein
 F; 63-84/Domain: transmembrane #status predicted <TM1>
 F; 95-122/Domain: transmembrane #status predicted <TM2>
 F; 185-213/Domain: transmembrane #status predicted <TM3>
 F; 267-293/Domain: transmembrane #status predicted <TM4>
 F; 297-319/Domain: transmembrane #status predicted <TM5>
 F; 9/Binding site: carbohydrate (Asn) (covalent) #status predicted
 Query Match 12.5% Score 232.5; DB 2; Length 359;
 Best Local Similarity 22.0%; Pred. No. 5.4e-12;
 Matches 73; Conservative 67; Mismatches 139; Indels 53; Gaps 8;
 Qy 11 LLYNVLAVALLSNALVLLCCAYSAELRTRASCVLNLPSLGHLLIAALDMDPFTLGVMRG 70
 Db 24 ILIILILTVAGNVVCAVGLNRLRS-LINCFIVSLAVTDLILGLLVLPEFSAYQLSC 82
 Qy 71 RTPSAPGACQVQIGFLDTPLASNAALSVALSADONLAVGFFPLRYAGRRLPRYAGLILGCGA 130
 Db 83 KWPSFSKVFDNIVTSLSDWMLCTASILNIFMISUDRYCATVDLRYPLVLPTRVVA-SLVIFI 142
 Qy 131 WGQSLIAFFGSGAALGCSWLG-----SSFAFASCSRLLPPEPRPFAFTATLHAGEVLP 184
 Db 143 WVSITLFLSTHIGNSRNETSKDNDTIVCKVQVN-----EVYGLDGLYTFYLP 194
 Qy 185 LAVICLTSQVHVARHQCMLDTV-TMKALALLADLHPSYQRCLIQKRRRHRATKI 243
 Db 195 LLMCITYFRIFKIAREQARRNHGSWKAATI-----REHKATVTL 236
 Qy 196 LAVICLTSQVHVARHQCMLDTV-TMKALALLADLHPSYQRCLIQKRRRHRATKI 243
 Db 197 LAVICLTSQVHVARHQCMLDTV-TMKALALLADLHPSYQRCLIQKRRRHRATKI 243
 Qy 244 GIAATPFLICPAPYVMTLAEVLPFPV-----TNAQGQILSKCLTYSKAVADPFTYS 295
 Db 237 AAVNGAFTICWFPY-----FTVFTYRGLKGDDATNEVFDVWLGLGANSALNPLLYA 289
 Qy 296 LLARPFRQVLAGMVRHLKRTPRPASTHDSL 327
 Db 290 ALNEDFRTA---YHOLFCCRLASHNSHETSL 317

RESULT 6
 JN0763 somatostatin receptor 5 - human
 C; Species: Homo sapiens (man)
 C; Date: 30-Sep-1993 #sequence_revision 20-Aug-1994 #text_change 20-Jun-2000
 C; Accession: JN0763
 R; Yamada, Y.; Kubota, A.; Yasuda, K.; Masuda, K.; Someya, Y.; Ihara, Y.; Li, Biochem. Biophys. Res. Commun. 195, 844-852, 1993
 A; Title: Cloning, functional expression and pharmacological characterization of a fourth
 A; Reference number: JN0762; MUID:93384611; PMID:8373420
 A; Accession: JN0763
 A; Cross-references: DBJ:D16827; NID:9487683; PID:BA004107.1; PID:9487684
 A; Residues: 1-364 <YAM>
 A; Molecule type: DNA
 A; Comment: This protein is a member of somatostatin receptor family.
 C; Genetics:
 A; Gene: GDB:5SSTR5
 A; Cross-references: DB:138452; OMIM:182455
 A; Map Position: 16p13.3-16p13.3
 A; Introns: #status absent
 C; Superfamily: G protein-coupled receptor; glycoprotein; phosphoprotein; thiole
 C; Keywords: G protein-coupled receptor; glycoprotein; phosphoprotein; thiole
 F; 1-66/Domain: transmembrane #status predicted <TM1>
 F; 77-102/Domain: transmembrane #status predicted <TM2>
 F; 114-135/Domain: transmembrane #status predicted <TM3>
 F; 155-177/Domain: transmembrane #status predicted <TM4>
 F; 196-228/Domain: transmembrane #status predicted <TM5>
 F; 246-273/Domain: transmembrane #status predicted <TM6>
 F; 280-307/Domain: transmembrane #status predicted <TM7>
 F; 13,26,187/Binding site: carbohydrate (Asn) (covalent) #status predicted
 F; 112-186/Disulfide bonds: #status predicted
 F; 242,325/Binding site: phosphate (Ser) (covalent) (by cAMP-dependent kinase) #status predicted
 F; 247/Binding site: phosphate (Thr) (covalent) (by cAMP-dependent kinase) #status predicted
 F; 320/Binding site: palmitate (Cys) (covalent) #status predicted

Query Match	12.5%	Score 231.5; DB 2; Length 364;	YQ	231 QOKRRRHRTRKIGIAIAFLICFAPYV--MTRLAEVLPFVTNAQNGILSKCLTYSKA 287
Best Local Similarity	25.0%	Pred. No. 6..6-12;	Db	239 -R-RRSRKRKTVTRMVLVIVVLPAGCWLPFFTNIVNVALPQEPASAGLYFFVVLISYANS 297
Matches	92;	Conservative 51; Mismatches 166; Indels 59; Gaps 11;	QY	288 VADPFYTSUJRRPFPQYLAEMVHRLIKRTPRASPHTSSLDVAGMVHQLKRT-PRAST 346
			Db	298 CANPVLYGFJSDNFRQSFQKV--LCLRKSGAKDADATEPRPDRIRQQBAPTRATA 354
2 GPGEALLAGLMMVLAVALISNALVLLCAYSAELTRASGVLLVNLNSIGHLLAALDMP 61	37 GARAVLVPPVLYLVCAAGLGGNTLVIVVLRFAQKMT-VNINIVLNLAVADVLY-MLGKP 94	QY	347 HNGSYDT 353	
62 FTLLGVYRGRTPSAPGACQVTFGLDTFLAANALSVAAISADQWLVGFLYAGRRLRPR 121	95 FLATQNAASFPFPFPVCLRYVMTLDGVNQFTSVFLTVNSVDRYLVPLSSARWRPR 154	Db	355 -NGLMQT 360	
122 YAGLIGCANGQSLAFS-----GALGCGSWLGYSSAFASCSLRLLPPEPRPFA 170	155 VAKLAAAWVLSLCMSLPLIVFADYQEGTNCASW-----PEPVGLNGA 199	RESULT 8	QRHUBE	
171 AFTATLHAGFVPLPLAVLCLTSLOVHVRARRHRCOMDTYTMKALALLADLHPSVYRCLL 230	200 VFIYTAFLGVFPFLVIC-----CYLIVKVR-----ACVVRGCV 238	N_Alternate_names: beta-3-adrenergic receptor, splice form 3 - human		
231 QOKRRRHRTRKIGIAIAFLICFAPYV--MTRLAEVLPFVTNAQNGILSKCLTYSKA 287	239 -RRRSRKRKTVTRMVLVIVVLPAGCWLPFFTNIVNVALPQEPASAGLYFFVVLISYANS 297	N_Constitutes: beta-3-adrenergic receptor splice form 1		
288 VADPFYTSUJRRPFPQYLAEMVHRLIKRTPRASPHTSSLDVAGMVHQLKRT-PRAST 346	298 CANPVLYGFJSDNFRQSFQKV--LCLRKSGAKDADATEPRPDRIRQQBAPTRATA 354	C_Species: Homo sapiens (man)		
346 THNGSYDT 353	354 AANGNQCT 361	C_Date: 03-Feb-1994 #sequence_revision 18-Aug-1995 #text_change 16-Jun-2000		
Cross-references: GDB:119604; OMIM:182450	Cross-references: GDB:203869; OMIM:109691	C_Accession: S33751; S32803; S32826		
Map Position: 3q20-3q28	Superfamily: vertebrate rhodopsin	C_Accession: S33751; S32803; S32826		
Genetics:	Genes: GDB:SSR	C_Accession: S33751; S32803; S32826		
Query Match	12.4%	Score 231; DB 2; Length 363;	YQ	Query Match 12.4%; Score 230.5; DB 1; Length 408;
Best Local Similarity	25.1%	Pred. No. 7..2e-16;	Db	Best Local Similarity 24.9%; Pred. No. 9e-12;
Matches	92;	Conservative 51; Mismatches 166; Indels 58; Gaps 11;	QY	Matches 61; Mismatches 154; Indels 65; Gaps 14;
2 GPGEALLAGLMMVLAVALISNALVLLCAYSAELTRASGVLLVNLNSIGHLLAALDMP 61	37 GARAVLVPPVLYLVCAAGLGGNTLVIVVLRFAQKMT-VNINIVLNLAVADVLY-MLGKP 94	3 PGEAVLAGLIVVMVLAVALISNALVLLCAYSAELTRASGVLLVNLNSIGHLLAAL 58		
62 FTLLGVYRGRTPSAPGACQVTFGLDTFLAANALSVAAISADQWLVGFLYAGRRLRPR 121	95 FLATQNAASFPFPFPVCLRYVMTLDGVNQFTSVFLTVNSVDRYLVPLSSARWRPR 154	155 VAKLAAAWVLSLCMSLPLIVFADYQEGTNCASW-----PEPVGLNGA 199		
122 YAGLIGCANGQSLAFS-----GALGCGSWLGYSSAFASCSLRLLPPEPRPFA 170	171 AFTATLHAGFVPLPLAVLCLTSLOVHVRARRHRCOMDTYTMKALALLADLHPSVYRCLL 230	171 AFTATLHAGFVPLPLAVLCLTSLOVHVRARRHRCOMDTYTMKALALLADLHPSVYRCLL 230		

Db	34 PWEAALAGAL--LALAVIATVGNLIVIVIAITWPLQLT-MTNVFTSLAADLVNGLL 89	Best Local Similarity 24.9%; Pred. No. 9.2e-12; Matches 93; Conservative 61; Mismatches 154; Indels 65; Gaps 14;
Qy	59 DMPFTLGVNRGRTPSAPGACQVIGFLDIFLPLASNALSTAALSDAQWLRGVFPFLRYAGRL 118	3 PGEAALAGLIVMVLAVALIS---NATVLLCAYSAEILTRASGVLLVNLSLGHILLAL 58
Db	59 90 VVPPAATLALGHWPLGATGELWTSVDLQVTCVTSIETCLALAVDRYLVNTRIGALV 149	34 PWEAALAGAL--LALAVIATVGNLIVIVIAITWPLQLT-MTNVFTSLAADLVNGLL 89
Qy	119 RPRYAGLILGGTAWGQSLAFASSGAAALGCSW--LGYSSAFASCSLRLPPEPRPRAAFTATL 176	59 DMPFTLGVNRGRTPSAPGACQVIGFLDIFLPLASNALISVALSADOLWAVGFPFLRYAGRL 118
Db	150 TTKRCARTAVWVWVSAAVSAPINSQWWVGADAAQRH-----SNPRCCAFASNM 202	90 VVPPAATLALGHWPLGATGELWTSVDLQVTCVTSIETCLALAVDRYLVNTRIGALV 149
Qy	177 -----HAWGVVPLAVLWVCLTSLQTHTRVBRHC-----QMDTIVTMKALA---215	Qy 119 RPRYAGLILGGTAWGQSLAFASSGAAALGCSW--LGYSSAFASCSLRLPPEPRPRAAFTATL 176
Db	203 PYVLLSSSVSTYPLVLMFLYTFARVEVVAATQRLRLRGLERGFLPPEESPPASRSLAAP 262	Db 150 TTKRCARTAVWVWVSAAVSAPINSQWWVGADAAQRH-----SNPRCCAFASNM 202
Qy	216 -----LLADLHSVSRQRCLIQKRRRHKATRKIGIAIAFLFCAPYVMTRL-----AEI 265	Qy 177 -----HAWGVVPLAVLWVCLTSLQTHTRVBRHC-----QMDTIVTMKALA---215
Db	263 VGTCAPEGVVAGRPAPRLVPLRERALCTGLMGTFTLWVPLFELANVLRAIGGSL 322	Db 203 PYVLLSSSVSTYPLVLMFLYTFARVFVATQRLRLRGLERGFLPPEESPPASRSLAAP 262
Qy	266 VP---FVTVNQWQGILUSKCLTYSKAVADPFTYSL---LRRPFRQVLAGMTHRLKRTTPP 319	Qy 216 -----LLADLHSVSRQRCLIQKRRRHKATRKIGIAIAFLFCAPYVMTRL-----AEI 265
Db	323 VPGPAFLAN--W-----LGYANSAFNPLIYCRSPDFRSFARRLICRCRRL---PPPP 371	Db 263 VGTCAPEGVVAGRPAPRLVPLRERALCTGLMGTFTLWVPLFELANVLRAIGGSL 322
Qy	320 ASTHDSSLDVAGM 332	Qy 266 VP---FVTVNQWQGILUSKCLTYSKAVADPFTYSL---LRRPFRQVLAGMTHRLKRTTPP 319
Db	372 CAAARPAFLPPSSV 384	Db 323 VPGPAFLAN--W-----LGYANSAFNPLIYCRSPDFRSFARRLICRCRRL---PPPEP 371
Qy	320 ASTHDSSLDVAGM 332	Qy 320 ASTHDSSLDVAGM 332
Db	372 CAAARPAFLPPSSV 384	Db 372 CAAARPAFLPPSSV 384
RESULT 9		
ORHUB3		
beta-2-adrenergic receptor, splice form 2 - human		
N; Contains: beta-3-adrenergic receptor splice form 1		
N; Contains: beta-3-adrenergic receptor splice form 1		
C; Species: Homo sapiens (man)		
C; Accession: A41448; S33752		
C; Date: 22-Jan-1993 #sequence_revision 18-Aug-1995 #text_change 16-Jun-2000		
C; Accession: A41448; S33752		
C; Species: Macaca mulatta (rhesus macaque)		
C; Accession: G02953		
C; Date: 21-Dec-1996 #sequence_revision 06-Jun-1997 #text_change 13-Aug-1999		
C; Accession: G02953		
R; Lowe, A.L.; Walston, J.; Shuldiner, A.R.		
A; Reference number: A41348; MUID:89468947; PMID:2570461.		
A; Accession: A41348		
A; Status: nucleic acid sequence not shown		
A; Molecule type: DNA		
A; Residues: 1-402 <ENo>		
A; Cross-references: GB:MR29932; NID:9178895; PID:AAA35550.1; PID:g178896		
A; Note: splice Form 1		
R; Lelias, J.M.; Kaghad, M.; Rodriguez, M.; Chalon, P.; Bonnin, J.; Dupre, I.; Delpach, E		
PEBS Lett. 324, 127-130, 1993		
A; Title: Molecular cloning of a human beta-2-adrenergic receptor cDNA.		
A; Reference number: S33751; MUID:93285320; PMID:8389717		
A; Accession: S33752		
A; Molecule type: DNA		
A; Cross-references: EMBL:X70812; DBL>		
A; Residues: 392-414		
A; Map position: 6p12-p11.1		
A; Introns: 402/2		
C; Superfamily: vertebrate rhodopsin		
C; Keywords: alternative splicing; G protein-coupled receptor; glycoprotein; transmembrane		
C; Product: beta-3-adrenergic receptor precursor splice form 2 #status predicted <M>		
F1-4141; Product: beta-3-adrenergic receptor precursor splice form 1 #status predicted <M>		
F1-402; Product: beta-3-adrenergic receptor precursor splice form 1 #status predicted <TM1>		
F1-37-63; Domain: transmembrane #status predicted <TM1>		
F1-113-133; Domain: transmembrane #status predicted <TM2>		
F1-156-178; Domain: transmembrane #status predicted <TM4>		
F1-104-125; Domain: transmembrane #status predicted <TM5>		
F1-293-314; Domain: transmembrane #status predicted <TM6>		
F1-322-347; Domain: transmembrane #status predicted <TM7>		
F1-9,26; Binding site: carbohydrate (Asn) (covalent) #status predicted		
Query Match 12.4%; Score 230.5; DB 1; Length 414;		
RESULT 10		
ORHUB3		
beta-3-adrenergic receptor - rhesus macaque		
C; Species: Macaca mulatta (rhesus macaque)		
C; Accession: G02953		
R; Lowe, A.L.; Walston, J.; Shuldiner, A.R.		
A; Reference number: H01989		
A; Accession: G02953		
A; Status: preliminary; translated from GB/EMBL/DDJB		
A; Molecule type: DNA		
A; Residues: 1-418 <DNo>		
A; Cross-references: EMBL:U63592; NID:91458230; PID:91458232		
A; Cross-references: EMBL:U63592; NID:91458230; PID:91458232		
C; Genetics:		
A; Introns: 402/1		
C; Superfamily: vertebrate rhodopsin		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
RESULT 11		
ORHUB3		
beta-3-adrenergic receptor - rhesus macaque		
C; Species: Macaca mulatta (rhesus macaque)		
C; Accession: G02953		
R; Lowe, A.L.; Walston, J.; Shuldiner, A.R.		
A; Reference number: H01989		
A; Accession: G02953		
A; Status: preliminary; translated from GB/EMBL/DDJB		
A; Molecule type: DNA		
A; Residues: 1-418 <DNo>		
A; Cross-references: EMBL:U63592; NID:91458230; PID:91458232		
A; Cross-references: EMBL:U63592; NID:91458230; PID:91458232		
C; Genetics:		
A; Introns: 402/1		
C; Superfamily: vertebrate rhodopsin		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		
Best Local Similarity 25.9%; Pred. No. 1.1e-11; Matches 56; Mismatches 149; Indels 67; Gaps 15;		
Query Match 12.4%; Score 229.5; DB 2; Length 418;		

Qy	266 VP---FVTNAQWGLSKCILTYSKAVADPFTYSL--LRRPFRQVLAGNVRHLRKRTP-- 317	Db	307 LSDNFRSFRKVL---DRRGYGMEDADAEPRP-----DxSGRDQATL--PT 349
Db	323 VDPDAFLAN- W-----LGYANSAFNPLITYCRSPDFRSAAFRRLUCHCGGR-LPREFCA 373	Qy	343 PASTHNGSVDT 353
Qy	318 -RPAST 322	Db	350 RSCEANGLMQT 360
Db	374 ADRPASS 380		RESULT 12
			A41795
	somatostatin receptor 1 - human		
	C;Species: Homo sapiens (man)		
	C;Accession: 31-Dec-1993 #sequence_revision 31-Dec-1993		
	C;Accession: A41795		
	Riyamada, Y.; Post, S.R.; Wang, K.; Tager, H.S.; Bell, G.I.; Seino, S.		
	Proc. Natl. Acad. Sci. U.S.A. 89, 251-255, 1992		
	A;Title: Cloning and functional characterization of a family of human and mouse somatostatin receptor genes		
	A;Reference number: A41795; MUID:92108031; PMID:1346068		
	A;Molecule type: DNA		
	A;Residues: 1-391 <YAM>		
	A;Cross-references: GB:W1829; NID:9307433; PIDN:ANAS8247.1; PID:9307434		
	A;Note: sequence extracted from NCBI backbone (NCBIP:74767, NCBIP:74768)		
	C;Genetics:		
	A;Gene: SSTR1		
	A;Cross-references: GDB:134185; OMIM:182451		
	A;Map position: 14q13-14q13		
	A;Introns: #status absent		
	C;Superfamily: vertebrate rhodopsin		
	C;Keywords: G protein-coupled receptor; glycoprotein; hormone receptor; lipoprotein; photoreceptor		
	C;Key words: G protein-coupled receptor; glycoprotein; hormone receptor; lipoprotein; photoreceptor		
	F:58-84/Domain: transmembrane #status predicted <TM1>		
	F:15-120/Domain: transmembrane #status predicted <TM2>		
	F:132-153/Domain: transmembrane #status predicted <TM3>		
	F:173-195/Domain: transmembrane #status predicted <TM4>		
	F:220-250/Domain: transmembrane #status predicted <TM5>		
	F:269-296/Domain: transmembrane #status predicted <TM6>		
	F:302-326/Domain: transmembrane #status predicted <TM7>		
	F:4,44,48/381/Binding site: carbohydrate (Asn) (covalent) #status predicted		
	F:130-308/381/Bisulfide bonds: #status predicted		
	F:172/Binding site: phosphate (Thr) (covalent) (by cAMP-dependent kinase) #status predicted		
	F:265/Binding site: phosphate (Ser) (covalent) (by cAMP-dependent kinase) #status predicted		
	F:269/Binding site: palmitate (Cys) (covalent) #status predicted		
	Query Match Score 228.5; DB 2; Length 391;		
	Best Local Similarity 24.5%; Pred. No. 1.3e-11;		
	Matches 78; Conservative 61; Mismatches 131; Indels 49; Gaps 11;		
Qy	2 GPGEALLAGLIVMVLAVLISNALVLLCCAYSAELRTRASGVLLVNLISGLHLIAALDM 60	Db	54 GQGSAILISFISFVVCVVGLCNSMIVIYIRAKNT-ATNIYVNLIAADELL-MLSV 111
Qy	61 PFTLGMGRGTPSAPACQVIGELDFTFLASNAALSAVVAASADONIAVGFPLYAGRLP 120	Db	112 PFTLGMTRGTPSAPACQVIGELDFTFLASNAALSAVVAASADONIAVGFPLYAGRLP 120
Qy	1 MGPGEALLAGLIVMVLAVLISNALVLLCCAYSAELRTRASGVLLVNLISGLHLIAALDM 60	Db	112 PFTLGMTRGTPSAPACQVIGELDFTFLASNAALSAVVAASADONIAVGFPLYAGRLP 120
Db	33 M GARAVIVPVLVLLC TGVLLGNTLYVVLRHAKNT -VIVNIVLNLAVADLF -MIGL 90	Qy	121 RYAGLILGCAGCQSL-----AFSGAGLGSWLGYSAFAPASCSSLRIPPEPERPRAAFT 173
Qy	61 PF-TLIGVMGRGTPSAPGACQVIGELDFTFLASNAALSAVVAASADONIAVGFPLYAGRLP 119	Db	172 TVAKVNLGVNVNLVLLVLPVVFSTAAAN-----SDGTVACNM-LMPPEAQRMIVGFV 224
Db	91 PFLATQNAAVSTWPFGSFLCLVMTDGINRFTSFCLMMSVDYLA7VHPLRSARMR 150	Qy	174 ATIHAVGFLPLAVLCLTSLOVHVARRHCOFRMDTVTMKALLLADLHPSVQRCLLQK 233
Qy	120 PRYAGLILGCAGCOSLAFGSGAALGGSWLGYSAFAPASCSSLRIPPEPERPRAAFTLHAV 179	Db	225 LYTFMGFLLPVGAICU-----CYVLIIAKMRVYALKAGWQ -----QRK 263
Db	151 PRVAKMSSAAYWVFSLMSPLL -VFAVDQEGWGTICNLQR -PEEVGLGAAFTTYSVL 207	Qy	234 RREHHRATRKIGIAATPLICFAPYVMTLAVL--PFVTVNAQNGILSKLTYSKAVAD 290
Qy	180 GFLVPLAVLCLTSLOVHVARRHCOFRMDTVTMKALLLADLHPSVQRCLLQKRRHRA 239	Db	264 RSERKITLVMVMMVMTVFCMMPFYVQLVNVPFAQDDATVQS-----LSVILGYANS CAN 319
Db	208 GFFGFLPVICL-----CYLILIVTKVKAAGMRVG---SSRR-----RSEPKV 246	Qy	291 PFTYSL-----RPFPRQYL 305
Qy	240 TRKIGIAATPLICFAPYVMTLAVL--PFVTVNAQNGILSKLTYSKAVADPFTSL 296	Db	320 PIIYGFSDNFKRSFQRL 338
Db	247 TRMVVVVVLFVFGCLMPLFPTIVVIAFTPEEPISAGLFFVYVLSYNSCANPLNFG 306	Qy	297 L---RRPFRQVLAGNVRHLRK---TPRPASTHDSSLDVAGNVRHQLLKRTPR 342

C; Superfamily: vertebrate rhodopsin
 C; Keywords: G protein-coupled receptor; glycoprotein; receptor; transmembrane protein

Query Match Score 12.3%; Score 228.5%; DB: 2; Length 391;
 Best Local Similarity 24.5%; Prcd. No. 1.e-11;
 Matches 78; Conservative 61; Mismatches 131; Indels 49; Gaps 11;

Qy 2 GPEBALLAGLVLVLA-VALLSVALVLLCCAYSAELRFRASGLVNLNSLGHLLAALDM 60
 Db 54 GQGSAALLSFSIYSSVCLVGLGGSMSVYVILRRAKMT-ATNYIYLNLIAADELL-MLSV 111
 Qy 61 PFTFLGGMGRGRTPSAAGCQVIGFLDTFLASNAALSVAALSADWMLAEFPLRYAAGRLLP 120
 Db 112 PFTVTSILRLRHEGALLCRLVLSVDAVNMTFSIYCLTVLSVDRYAVVHPIKARYRRP 171
 Qy 121 RYFLGLLGCAWGSSL-----AFSGAALGCSWLGSSAFASCSLRLPPEPERPRAAFT 173
 Db 172 TAKVNVNGWVWISLVLVLPVIVFSRTIAN-----SDGTVCRM-LMPEPAQEWLVGFV 224
 Qy 174 ATIHAVGFVLPLAVLCLTSQVHVRARHCCORDTVTMKALALIADLHPSVVRQRLIQQK 233
 Db 225 LTFMLGFLPVGAICL-----CYVLLIAKHNRMVAKRAGWQ -----QRK 263
 Qy 234 RRRHRAKTKGIAATPLICFAPYVMTLAEILV--PFTVTDNAQWGLSCKLTSKAVAD 290
 Db 264 RSRKRKITLMMVMMVWVTCWMEFYYVQVNVPAEQDDATVSSQ---LSVILGYANSCAN 319
 Qy 291 PFTVSSL---RPFPQVL 305
 Db 320 PIYGFELSDNFRKFRQRL 338

RESULT 15
 DYHDD5
 dopamine receptor D5 - human
 C;Species: Homo sapiens (man)
 C;Accession: S15080; A41222
 C;Cross-references: GB: M67439; NID: 9181830; PID: AAA52329.1; PID: g181831
 R;Grandy, D.K.; Zhang, Y.; Bouvier, C.; Zhou, Q.Y.; Johnson, R.A.; Allen, L.; Buck, K.
 R;Sunahara, R.K.; Guan, H.C.; O'Dowd, B.F.; Seeman, P.; Laurier, L.G.; Ng, G.; George,
 Proc. Natl. Acad. Sci. U.S.A. 88, 915-9119, 1991
 A;Title: Multiple human D-5 dopamine receptor genes: a functional receptor and two pse
 A;Reference number: S15080; MUID: 91204055; PMID: 1826762
 A;Accession: S15080
 A;Molecule type: DNA
 A;Residues: 1-477 <S0N>
 A;Cross-references: GDB:127548; OMIM:126453
 A;Map Position: 4p15.3-4p15.1
 C;Superfamily: vertebrate rhodopsin
 C;Keywords: G protein-coupled receptor; glycoprotein; lipoprotein; neurotransmitter re
 F;41-66/Domain: transmembrane #status predicted <TM1>
 F;78-104/Domain: transmembrane #status predicted <TM2>
 F;115-136/Domain: transmembrane #status predicted <TM3>
 F;157-180/Domain: transmembrane #status predicted <TM4>
 F;225-245/Domain: transmembrane #status predicted <TM5>
 F;246-297/Domain: intracellular #status predicted <INT>
 F;298-319/Domain: transmembrane #status predicted <TM6>
 F;341-361/Domain: transmembrane #status predicted <TM7>
 F;78-104/Domain: carbohydrate #status predicted (covalent) #status Predicted
 F;115-136/Domain: disulfide bonds: #status predicted (covalent) #status Predicted
 F;157-180/Domain: phosphate (Thr) (covalent) #status Predicted
 F;225-245/Domain: phosphate (Ser) (covalent) #status Predicted
 F;246-297/Domain: phosphate (Ser) (covalent) #status Predicted
 F;298-319/Domain: phosphate (Ser) (covalent) #status Predicted

```

Query Match 12.3%; Score 228.5; DB 1; Length 477;
Best Local Similarity 21.6%; Pred. No. 1.6e-11;
Matches 90; Conservative 82; Mismatches 162; Indels 83; Gaps 17;
Matches 90; Conservative 82; Mismatches 162; Indels 83; Gaps 17;
Qy      1 MGPGBALLACLLVNLAVALLSNALVLLCCTTCAASLRLTRASGVLVNLISLGHLLAALDM 60
Db      36 LGPSQVVTACLLLIIWTLGNTLVCAAVLRSRHLRANMTNVFIVSLAVSDFLVALVM 95
Qy      61 PFTILGVMGRRTPSAPGA-CQVIGFLDTFLASNALSAVALLSAQWLAVGFPFLRYAGRLR 119
Db      96 PWKVAEVAGVYWPF-GAFCDDWVYAFDIMCSTATSILNLCVISDRYNAISRFRYRKMT 153
Qy      120 PRYAGLLLGCAWGQSLAFCGSMLGYSASSAFASCSLRLPP-----EPE- 165
Db      154 QRMALMVVGAWTSLISITIPVQLNW-HRDQAASWGGLDLPNLANWTPWEEDFWEDDV 212
Qy      166 -----RPREAAFTATLHAVGFWPLAVLCLTSLOVHVARRHQCMDTVTMKA---- 213
Db      213 NAENDSSSLNRTYAISSL--ISYIPIVAMIVTYTRIYRAQVIRRISSLERAABHAQ 270
Qy      214 -LALLADLHSVRQBLCLIQQKRRHRAFKIGIAIATFLICFAPYVMTLAEVPPFTVN 272
Db      271 SCRSSAACAPDTSLRASI--KKEETKVLTKLTSVIMGVPCWMLPFFI-LNCMVPFCSGH 325
Qy      273 AQ-----WGLLSRCLTYSKAVADPFTYSL--LRPFRQVLAGMVHR 311
Db      326 PEGPPAGFPVCSETFDVFW-----FGWANSSLNPVITYAFNADFKYEAQIL-GCSH- 377
Qy      312 LLKRTPRPASTHDSSL-----DV-----AGMYHQLLKRTPPASTNGSYTEND 356
Db      378 FCSRTPVETVNISNLISYNDIVFHKEIAAYTHM---PNAVTPGNREVDNDEE 430

```

Search completed: May 18, 2004, 12:08:40
 Job time : 21 secs

Result No.	Score	Query Match	Length	DB ID	Description
1	1843	99.2	363	1 GPT8_HUMAN	096p63 homo sapien
2	848	45.6	337	1 GPP6_HUMAN	Q8ndr2 homo sapien
3	823	44.3	337	1 GPP6_MOUSE	Q9px13 rattus norvegicus
4	822	44.2	337	1 GPP6_MOUSE	Q8bza1 mus musculus
5	245.5	13.2	440	1 SH6_MOUSE	Q9r1c8 mus musculus
6	244.5	13.2	440	1 SH6_HUMAN	P50406 homo sapien
7	243.5	13.1	388	1 SSR4_HUMAN	P31391 homo sapien
8	239	12.9	436	1 SH6_RAT	P31398 rattus norvegicus
9	232.5	12.5	359	1 SSR4_CAVPO	P47747 cavia porcellus
10	232	12.5	388	1 SH4_MOUSE	P97288 mus musculus
11	231.5	12.5	364	1 SSR5_HUMAN	P35346 homo sapien
12	230.5	12.4	408	1 B3AR_HUMAN	P13945 homo sapien
13	229.5	12.4	418	1 B3AR_MACMU	Q28524 macaca mulatta
14	229.5	12.4	425	1 OKR_HUMAN	Q43613 homo sapien
15	229	12.3	362	1 SSR5_MOUSE	Q08858 mus musculus
16	228.5	12.3	363	1 SSR5_RAT	P30938 rattus norvegicus
17	228	12.3	391	1 SSR1_HUMAN	P30873 homo sapien
18	228.5	12.3	391	1 SSR1_MOUSE	P30873 mus musculus
19	228.5	12.3	391	1 SSR1_RAT	P28846 rattus norvegicus
20	228.5	12.3	477	1 DBDR_XENLA	P21938 xenopus laevis
21	228	12.3	387	1 GALS_HUMAN	Q43603 homo sapien
22	228	12.3	475	1 DBDR_RAT	P25115 rattus norvegicus
23	224.5	12.1	358	1 HH2R_MOUSE	P97292 mus musculus
24	224	12.1	372	1 GALS_RAT	Q08726 rattus norvegicus
25	224	12.1	457	1 DBDR_XENLA	P42290 xenopus laevis
26	223.5	12.1	514	1 AIAB_MOUSE	P97717 mus musculus
27	223.5	12.0	359	1 HH2R_CANFA	P17124 canis familiaris
28	223	12.0	369	1 SSR2_HUMAN	P30874 homo sapien
29	223	12.0	388	1 SSR4_CAVPO	Q70528 cavia porcellus
30	223	12.0	467	1 B3AR_BOVIN	Q9t616 bos taurus
31	223	12.0	479	1 SSR7_HUMAN	P34959 homo sapien
32	222.5	12.0	384	1 SSR4_RAT	P30937 rattus norvegicus
33	222.5	12.0	561	1 AIAD_RAT	P23344 rattus norvegicus

ALIGNMENTS					
RESULT 1					
ID	GPT8_HUMAN	STANDARD;	PRT;	363	AA.
AC	Q96p63	Q8NGV3;			
DT	10-OCT-2003	(Rel. 42, Created)			
DT	10-OCT-2003	(Rel. 42, Last sequence update)			
DT	10-OCT-2003	(Rel. 42, Last annotation update)			
DE	Probable G protein-coupled receptor GPR78.				
GN	GPR78.				
OS	Homo sapiens (Human).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TaxID	9606;				
OX	NCBI_TaxID=9606;				
RN	SEQUENCE FROM N.A.				
[1]	SEQUENCE FROM N.A.; PubMed=11574155;				
RP	MEDLINE=2145557;				
RA	Lee D.K., Nguyen T., Lynch K.R., Cheng R., Vanti W.B., Arkhitko O.,				
RA	Lewis T., Evans J.F., George S.R., O'Dowd B.F.,				
RT	"Discovery and mapping of ten novel G protein-coupled receptor genes.";				
RL	Gene 275:83-91(2001).				
RN	[2]				
RP	SEQUENCE FROM N.A.				
RA	Suwa M., Sato T., Okouchi I., Arita M., Futami K., Matsumoto S.,				
RA	Tsutsumi S., Aburatani H., Asai K., Akiyama Y.,				
RA	"Genome-wide discovery and analysis of human seven transmembrane helix receptor genes.";				
RT	Submitted (UTL=2001) to the EMBL/GenBank/DBJ databases.				
RN	[3]				
RP	INDUCTION.				
RA	MEDLINE=20175424; PubMed=10708769;				
RA	van Laar T., Schouten T., Hoogervorst E., van der Eb A.J.,				
RA	Terliet C.,				
RT	"The novel MMS-inducible gene Mifl/KIAA0025 is a target of the unfolded protein response pathway.";				
RL	FEBS Lett. 469:13-13(2000).				
CC	-!- FUNCTION: Orphan receptor.				
CC	-!- SUBCELLULAR LOCATION: Integral membrane protein.				
CC	-!- TISSUE SPECIALIVITY: Expressed in pituitary and placenta. No expression detected in brain, skeletal muscle, lung, heart, liver, pancreas or kidney.				
CC	-!- INDUCTION: Expression increased in fibroblasts or HeLa cells following UV-A irradiation, exposure to DNA-alkylating agents, or endoplasmic reticulum (ER) stress caused by osmotic shock or the glycosylation inhibitor tunicamycin.				
CC	-!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.				
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/ or send an email to license@isp-sib.ch).				
DR	EMBL; AF411107; PNL26479.1; -				

FT	DOMAIN	69	81	EXTRACELLULAR (POTENTIAL).
FT	TRANSMEM	82	102	3 (POTENTIAL).
FT	DOMAIN	103	123	CYTOSMERIC (POTENTIAL).
FT	TRANSMEM	124	144	4 (POTENTIAL).
FT	DOMAIN	145	168	EXTRACELLULAR (POTENTIAL).
FT	TRANSMEM	169	189	5 (POTENTIAL).
FT	DOMAIN	190	245	CYTOSMERIC (POTENTIAL).
FT	TRANSMEM	246	266	6 (POTENTIAL).
FT	DOMAIN	267	276	EXTRACELLULAR (POTENTIAL).
FT	TRANSMEM	277	297	7 (POTENTIAL).
FT	DOMAIN	298	337	CYTOSMERIC (POTENTIAL).
FT	DISULFID	79	156	BY SIMILARITY.
SQ	SEQUENCE	337 AA;	37804 MW;	CD7E2381F085F2DD CRC64;
Query Match		44.3%	Score 823;	DB 1;
Best Local Similarity		49.1%	Pred. No. 2.7e-54;	Length
Matches	164;	Conservative	58;	Mismatches 106;
Indel				
Qy	1	MGEGERLLAGLIVMVIAVLLNSVLYLCCAYSAEIRTASGIVLV		
Db	1	MNSWDAGIAGLIVGTGVSLISNLGLCLLHSADIRQPAALPTL		
Qy	61	PPTFLIGUMGRGRTPSAAGACQVIGELDTEASNALSAVSLASADOML		
Db	61	PLTLAGIVYAQRQPAIGRLCRAAFLITELIANSMSMALSIDRWV		
Qy	121	RYAGLIGGCCAGQSLLAFSGAGLIGCSWLGSSAPASCSSLRPPEDR		
Db	121	RDAFAFMAYATMWHALTFPPATLALSWHGPOLYASCTLCSRPPEDR		
Qy	181	FVFLPLAVLCLTSQVIRVVARHCQRNDTVMKALALLADLHPSRQ		
Db	181	FLLSFIVLCPYIYKVKLKVVARFHCKRIVDVTMOTLVLDVHPSRE		
Qy	241	RKGIAIATFLICFAPVYVMTLAEALYEPFVTVNAQWGLSKCLTYSK		
Db	241	KK1STFGTFLCFAPVYVMTLAEALYEPFVTVNAQWGLSKCLTYSK		
Qy	301	PROVLAGMVRHLIKRTPRPASTDSSLDVAGMVH 3.34		
Db	301	YRRSCKEILLNR1FNR---RSIH--SVGLTGDSH 3.28		
RESULT 4				
GP26_MOUSE	SEQUENCE FROM N.A.			
ID	GP26_MOUSE	STANDARD;	PRT;	337 AA.
AC	Q8BZ27; Q80755; Q8BX25;			
DT	10-OCT-2003 (Rel. 42; Created)			
DT	10-OCT-2003 (Rel. 42; Last sequence update)			
DT	10-OCT-2003 (Rel. 42; Last annotation update)			
DE	Probable G protein-coupled receptor GPR26.			
CN	GPR26.			
OS	Mus musculus (Mouse).			
OC	Eukaryota; Metazoa; Chordata; Craniota; Vertebrata; Eut			
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mu			
OX	NCBI_TAXID=10090;			
RN				
RP	SEQUENCE FROM N.A.			
RC	STRAIN=C57BL/6J; TISSUE=Cerebellum;			
RX	PMID=223546683; PubMed=12465851;			
RA	Okazaki Y., Furutani M., Kusukawa T., Adachi J., Bono H.,			
RA	Nikaido I., Osato N., Saito R., Suzuki H., Yamamoto I.,			
RA	Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C			
RA	Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush C			
RA	Schriml L.M., Karpin A., Matsuda H., Batalov S., Beige			
RA	Dalla J.A., Bradt D., Brasic V., Chothia C., Corbani L.			
RA	Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Fraz			
RA	Gastserland T., Gariboldi M., Gissi C., Godzik A., Gouj			
RA	Grinmold S., Guibertich S., Hirokawa N., Jackson I.J.,			
RA	Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King			
RA	Konagaya A., Karochin I.V., Lee Y., Lenhard B., Lyons			
RA	Meglott D.R., Maitais L., Marchionni L., McKenzie L., M			
RA	Nakashima T., Numata K., Okido T., Pavon W.J., Pertea G			

Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S., Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M., Sandelin A., Schnidder C., Semple C.A., Setou M., Shimada K., Sutana R., Takeno M.S., Taylor M.S., Teasdale R.D., Tomita M., Verardo R., Wager L., Wahlestedt A., Wang A., Yang L., Yim L., Yiu L., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N., Hizume K., Hizume K., Konno H., Nakamura M., Sakazume N., Sato K., Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S., Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kegawa I., Miyazaki A., Sakai K., Sasai D., Shibata K., Shingawa A., Yusunishi A., Yosino M., Waterston R., Lander E.S., Rogers J., Birney E., Hayashizaki Y., Hayashizaki Y., Li F., Randalis J.E., Vassilatis D.K., Hohmann J.G., Zeng H., Weller J.R., Wright A.C., Morrud M.T., Brown A., Rodriguez S.S., Weller J.R., Wright A.C., Berman J.E., Gaitanaris G.A.; "The G protein-coupled receptor repertoire of human and mouse."; Proc. Natl. Acad. Sci. U.S.A. 100:4903-4908 (2003). [2]	SEQUENCE OF 117-291 FROM N.A.
REDFP	SEQUENCE OF 117-291 FROM N.A.
RX	MEDLINE=22584407; PubMed=12779517;
CC	Vassilatis D.K., Hohmann J.G., Zeng H., Li F., Randalis J.E., Weller J.R., Wright A.C., Morrud M.T., Brown A., Rodriguez S.S., Weller J.R., Wright A.C., Berman J.E., Gaitanaris G.A.; "The G protein-coupled receptor repertoire of human and mouse."; Proc. Natl. Acad. Sci. U.S.A. 100:4903-4908 (2003).
CC	-I- FUNCTION: Orphan receptor.
CC	-I- SUBCELLULAR LOCATION: Integral membrane protein.
CC	-I- TISSUE SPECIFICITY: Exclusively expressed in the brain.
CC	-I- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL Outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).
CC	EMBL; AK031600; BAC29305.1; -.
CC	EMBL; AK042755; BAC31354.1; -.
CC	EMBL; AK255585; AK085097.1; -.
CC	MGD; MGI:12441758; GPR26.
CC	InterPro; IPR000276; GPCR_Rhodopsin.
CC	InterPro; IPR000169; Gprotein_acs1.
CC	Pfam; PF000001; 7tm_1_1.
CC	PRINTS; PR00237; GCRRHADOPSN.
CC	PROSITE; PS000237; G PROTEIN RECEP_F1_1; FALSE_NEG.
CC	G PROTEIN RECEP_F1_2_1.
KW	G protein coupled receptor; Transmembrane.
DOMAIN	10 DOMAIN 1 10 DOMAIN 1
FT	TRANSMEM 11 31 1 (POTENTIAL).
FT	DOMAIN 32 47 CYTOPLASMIC (POTENTIAL).
FT	TRANSMEM 48 68 2 (POTENTIAL).
FT	DOMAIN 69 81 EXTRACELLULAR (POTENTIAL).
FT	TRANSMEM 82 102 3 (POTENTIAL).
FT	DOMAIN 103 123 3 (POTENTIAL).
FT	TRANSMEM 124 144 CYTOPLASMIC (POTENTIAL).
FT	DOMAIN 145 168 EXTRACELLULAR (POTENTIAL).
FT	TRANSMEM 169 189 5 (POTENTIAL).
FT	DOMAIN 190 245 CYTOPLASMIC (POTENTIAL).
FT	TRANSMEM 246 266 6 (POTENTIAL).
FT	DOMAIN 267 276 EXTRACELLULAR (POTENTIAL).
FT	TRANSMEM 277 297 7 (POTENTIAL).
FT	DOMAIN 298 337 CYTOPLASMIC (POTENTIAL).
FT	DISULFID 79 156 BY SIMILARITY.
FT	CONFLICT 156 156 C → R (IN REF. 2).
SEQUENCE	337 AA; 37746 MW; CD7CF1744E72DD CRC64;
SQ	Query Match 44.2%; Score 822; DB 1; Length 337; Best Local Similarity 49.1%; Pred. No. 3.3e-54; Matches 57; Mismatches 107; Indels 6; Gaps 2;

FT	DOMAIN	58	64	CYTOPLASMIC (POTENTIAL).	RP	SEQUENCE OF 215-280 FROM N.A.	
FT	TRANSMEM	65	85	2 (POTENTIAL).	RC	TISSUE=striatum;	
FT	DOMAIN	86	100	EXTRACELLULAR (POTENTIAL).	RX	MEDLINE=95305798; PubMed=7656980;	
FT	TRANSMEM	101	122	3 (POTENTIAL).	RA	Ulmer C., Schmuck K., Kalman H.O., Lubbert H.; "Expression of serotonin receptor mRNAs in blood vessels."	
FT	DOMAIN	123	144	CYTOPLASMIC (POTENTIAL).	RL	PBS Lett. 370:215-221(1995).	
FT	TRANSMEM	145	166	4 (POTENTIAL).	CC	-1- FUNCTION: This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. The activity of this receptor is mediated by G proteins that stimulate adenylyl cyclase. It has a high affinity for tricyclic psychotropic drugs.	
FT	DOMAIN	167	184	EXTRACELLULAR (POTENTIAL).	CC	CC SUBCELLULAR LOCATION: Integral membrane protein.	
FT	TRANSMEM	185	208	5 (POTENTIAL).	CC	CC TISSUE SPECIFICITY: Expressed in several human brain regions, most prominently in the caudate nucleus.	
FT	DOMAIN	209	267	CYTOPLASMIC (POTENTIAL).	CC	CC SIMILARITY: Belongs to family 1 of G-protein coupled receptors.	
FT	TRANSMEM	268	292	6 (POTENTIAL).	CC	CC	
FT	DOMAIN	293	297	EXTRACELLULAR (POTENTIAL).	CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use, by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).	
FT	TRANSMEM	298	322	7 (POTENTIAL).	CC	CC	
FT	DOMAIN	323	440	CYTOPLASMIC (POTENTIAL).	CC	CC	
FT	DISULFID	99	180	BY SIMILARITY.	CC	CC	
FT	CARBOXYD	9	9	N-LINKED (GLCNAC, .) (POTENTIAL).	CC	CC	
SQ	SEQUENCE	440 AA;	46998 MW;	4440 CDEB01FBF0C CRC64;	CC	CC	
Qy	2	GPDEA-----LILAGLIVNNLVAVALLSNVLLCCAYSSAELRTRASGVLVNLISLGHIL	53	13.2%; Score 245.5; DB 1; Length 440;	Db	16 GGPAPPAGP3GSWVAALCIVVILVTAANSLIALCTQPLAQNTE--SNFLVSSFTSVDL	73
Db	54	LIAALDMPFTLIGVMGRGRTPSAAGACOVIDGFLDTFLASNALSAVALLSADQOWLAVGFPLR	113	Best Local Similarity 25.1%; Pred. No. 3e-11; Mismatches 174; Indels 57; Gaps 15;	Qy	114 YAGRL-RPYAGLILGCGWGLG--YSSAFASCSL--RIPPEP	164
Db	74	MVGLVNNPAPMINALYGRWVILARGCLLWTADFVMCCSASLNLCLISDRLYLILSPR	133	Matches 100; Conservative 68; Mismatches 174; Indels 57; Gaps 15;	Db	134 YKLRLMPAQLALIGAW--SLLAALASFLPLLGPHELGKARTSAGQCRLLASLP--	187
Db	165	ERPRFAAFTATAHVGVLPAVILCTSLOQVERARRHCOMDTV-----MKALA	215	Qy 165 ERPRFAAFTATAHVGVLPAVILCTSLOQVERARRHCOMDTV-----MKALA	215	Db 188 -----YVLYASGVTFLLPSGAICFTYCRLLAARKQAVQVASLTTGTTAGQALETIQ	240
Qy	216	LLADLHPSPV-----QRCLIQGRRHRATRIGIATATFLICFAPYVMTLAEVLPFVTV	271	Db 216 LLADLHPSPV-----QRCLIQGRRHRATRIGIATATFLICFAPYVMTLAEVLPFVTV	271	Db 272 NAOQGILSKLCKTYSKAVADPFTYSLRPPFQVLAGN-----HRLJRKTPPPASTH	323
Db	241	VRPTPRGMESADSRRLLTKRSKALKASLTIGLILSMMPFTWLFVVASIAQAVCDTIS	300	Qy 241 VRPTPRGMESADSRRLLTKRSKALKASLTIGLILSMMPFTWLFVVASIAQAVCDTIS	300	Db 301 PGFLFDVTPT-WLGNCNSTMNPFLIPLPNSDSDSA-SESTSGIQLT	359
Qy	324	DSSLDVAGMVHQLLKRTPRPASTHNGSVTDENDSCLQQT	362	Db 324 DSSLDVAGMVHQLLKRTPRPASTHNGSVTDENDSCLQQT	362	Qy 360 SGAR--PGLSLQQLVPLPNSDSDSA-SESTSGIQLT	395
Db	360	SGAR--PGLSLQQLVPLPNSDSDSA-SESTSGIQLT	395	Qy 360 SGAR--PGLSLQQLVPLPNSDSDSA-SESTSGIQLT	395	Db 360 SGAR--PGLSLQQLVPLPNSDSDSA-SESTSGIQLT	395
RESULT 6							
5H6 - HUMAN							
ID	5H6_HUMAN	STANDARD;	PRT;	440 AA.	Qy	2 GP-----GEALLAGLIVNNLVAVALLSNVLL-LCCAYSSAELRTRASGVLVNLISLGHIL	55
AC	P0406; Q13440;				Db	18 GPPSAPGSGMYAAALCVIALTAAANLIALICTOPALRNT--SNFLSLETSMDMV	75
DT	01-OCT-1996 (Rel. 34, Created)				Qy	56 AALDMPFTLIGVMGRGRTPSAAGCQVIGFLDPLASNALSAVALLSADQWLAVGFPLR	115
DT	01-OCT-1996 (Rel. 34, Last sequence update)				Db	76 GLVYMPMPMLNLYGRWVLTARGCLLWTADFYMCCSASLNLCLISDRLYLSPRYK	135
DT	05-MAR-2004 (Rel. 43, Last annotation update)				Qy	116 GRLRP-RYAGLILGCAQOSLA---FSGAALGCSNLGYSSAFAASCSLRLPPEPRFA	170
DE	5-hydroxytryptamine 6 receptor (5-HT-6) (Serotonin receptor).				[2]		
GN	HTR6.						
OS	Homo sapiens (Human).						
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;						
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.						
OX	NCBI_TaxID=9606;						
RN	SEQUENCE FROM N.A.						
PC	TISSUE=striatum;						
RX	MEDLINE=9610917; PubMed=8522988;						
RA	Kohen R., Metcalf M.A., Khan N., Druck T., Huebner K., Lachowicz J.B.,						
RA	Sibley D.R., Roth B., Hamblin M.W.						
RT	"Cloning, characterization, and chromosomal localization of a human						
RT	5-HT6 serotonin receptor".						
RL	J. Neurochem. 66:47-56 (1996).						
RL	[2]						

RESULT 7

SSR4 HUMAN STANDARD; PRT; 368 AA.

AC P31391; Q9UYI1; 26. Created)

DT 01-JUL-1993 (Rel. 26, Last sequence update)

DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE Somatostatin receptor type 4 (SS4R).

GN SSTR4.

OS Homo sapiens (Human).

OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=93290656; PubMed=8515564;

RA Xu Y., Song J., Bruno J.F., Berelowitz M.;

RT "Molecular cloning and sequencing of a human somatostatin receptor, hSSTR4";

RL Biochem. Biophys. Res. Commun. 193:648-652(1993).

RN [2]

RP SEQUENCE FROM N.A.

RX MEDLINE=93348256; PubMed=8483934;

RA Rohrer L., Rauh F., Bruns C., Buettner R., Hofstaedter F.,

RA Schuelke R.;

RT "Cloning and characterization of a fourth human somatostatin receptor";

RT "Cloning and characterization of a fourth human somatostatin receptor";

RT "Cloning and characterization of a fourth human somatostatin receptor subtype";

RL Proc. Natl. Acad. Sci. U.S.A. 90:4196-4200(1993).

RN [3]

RP SEQUENCE FROM N.A.

RX MEDLINE=93348611; PubMed=8483934;

RA Yamada Y., Kagi moto S., Kubota A., Yasuda K., Someya Y.,

RA Ihara Y., Li Q., Imura H., Seino S., Seino Y.;

RT "Cloning, functional expression and pharmacological characterization of a fourth (hSSTR4) and a fifth (hSSTR5) human somatostatin receptor subtype";

RL Biochem. Biophys. Res. Commun. 195:844-852(1993).

RN [4]

RP SEQUENCE FROM N.A.

RX MEDLINE=93302799; PubMed=8100352;

RA Demchynsky L.L., Srirkant C.B., Sunahara R.K., Kent G., Seeman P.,

RA van Tol H.H.M., Panetta R., Patel Y.C., Niitnik H.B.;

RT "Cloning and expression of a human somatostatin-14-selective receptor variant (somatostatin receptor 4) located on chromosome 20.";

RL Mol. Pharmacol. 43:894-901(1993).

RN [5]

RP SEQUENCE FROM N.A.

RX MEDLINE=21637459; PubMed=11780052;

RA Deloukas P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R.,

RA Jones M., Stavrides G., Almeida J.P., Babbage A.K., Baggaley C.L.,

RA Bailey J., Barlow K.F., Bates K.N., Beare D.M.,

RA Beasley O.P., Bird C.P., Blakely S.E., Bridgeman A.M., Brown A.J.,

RA Buck D., Burriell W.D., Butler A.P., Carter C., Carter N.P.,

RA Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M.,

RA Clegg S., Cobley V.B., Collier R.E., Connor R.E., Corby N.R.,

RA Coulson A., Coville G.J., Deadman R., Dhami P.D., Dunn M.,

RA Ellington A.G., Frankland J.A., Fraser A., French L., Garner P.,

RA Gafford D.V., Griffiths M.N.D., Gwilliam R., Hall R.E.,

RA Hammond S., Heath P.D., Holden J.L., Howden P.J.,

RA Huckle E., Harley J.L., Hunt S.B., Jekosch K., Johnson C.M., Johnson D.,

RA Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S.,

RA Lehnaslaibao M.H., Leversha M.A., Lloyd C., Lloyd D.M., Lovell J.D.,

RA Marsh V.L., Martin S.L., McConnachie L.J., McLay K., McMurray A.A.,

RA Milne S.A., Misery D., Moore M.J.F., Mulligan J.C., Nickerson T.,

RA Oliver K., Parker A., Patel R., Pearce T.A.V., Pack A.I.,

RA Philimore B.J.C.T., Prathalingam S.R., Plumb R.W., Ramsay H.,

RA Rice C.M., Ross M.T., Scott C.B., Sehra H.K., Shownkeen R., Sims S.,

RA Skuce C.D., Smith M.L., Soderlund C., Steward C.A., Sulston J.E.,

RA Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A.,

RA Tracey A., Trichan A.C., Vaudin M., Wall M., Wallis J.M.,

RA Whitehead S.L., Whittaker P., Willey D.L., Williams L., Williams S.A.,

RA Wilmng L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S.,

RA Rogers J.;

RA RT "The DNA sequence and comparative analysis of human chromosome 20.";

RL Nature 414:865-871(2001).

CC -I- FUNCTION: Receptor for somatostatin-14. The activity of this receptor is mediated by G proteins which inhibits adenylyl cyclase. It is functionally coupled not only to inhibition of adenylyl cyclase, but also to activation of both arachidonate release and mitogen-activated protein (MAP) kinase cascade.

CC -I- Mediates antiproliferative action of somatostatin in tumor cells.

CC -I- SUBCELLULAR LOCATION: Integral membrane protein.

CC -I- TISSUE SPECIFICITY: Specifically expressed in fetal and adult brain, lung tissue, stomach, and in lesser quantities in the kidney, pituitary and adrenals.

CC -I- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@isb-sib.ch).

CC DR D16826; BAA04106_1; -

CC DR EMBL; L11836; AAA6623_1; -

CC DR EMBL; L07833; AAA60515_1; -

CC DR EMBL; L07061; -; NOT_ANNOTATED_CDS.

CC DR EMBL; AL049651; CABST953_1; -

CC DR PIR; JN0605; DRSSP; P02639; 1B0J.

CC DR Genew; HGNC; 11333; SSTR4.

CC DR MIM; 182454; -

CC DR GO; GO:0009887; C:integral to plasma membrane; TAS.

CC DR GO; GO:0004994; F:somatostatin receptor activity; TAS.

CC DR GO; GO:0001217; P:G-protein signaling, coupled to cyclic nucl. ; TAS.

CC DR GO; GO:0005285; P:negative regulation of cell proliferation; TAS.

CC DR InterPro; IPR00276; GPCR_Rhodpsn.

CC DR PFAM; PF00001; 7tm_1; 1.

CC DR PRINTS; PR00237; GPCR_RHODPSN.

CC DR PROSITE; PS00023; G: PROTEIN RECEPTOR_F1_1; 1.

CC DR PROSITE; PS50265; G: PROTEIN RECEPTOR_F1_2; 1.

CC KW G-Protein coupled receptor; Transmembrane; Glycoprotein;

CC KW Polymodene family; Lipoprotein; Palmitate; Phosphorylation;

CC KW Polymorphism.

FT DOMAIN 1 46 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 47 73 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 74 83 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 84 104 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 105 120 3 (POTENTIAL).

FT TRANSMEM 121 142 CYTOPLASMIC (POTENTIAL).

FT DOMAIN 143 161 4 (POTENTIAL).

FT TRANSMEM 162 185 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 186 208 5 (POTENTIAL).

FT TRANSMEM 209 232 CYTOPLASMIC (POTENTIAL).

FT DOMAIN 233 260

FT	TRANSMEM	261	280	6 (POTENTIAL).	RN [3]
FT	DOMAIN	281	291	EXTRACELLULAR (POTENTIAL).	RP SEQUENCE FROM N.A.
FT	TRANSMEM	292	314	7 (POTENTIAL).	RC STRAIN=Wistar;
FT	DOMAIN	315	388	CYTOSMATIC (POTENTIAL).	RA Martial R.;
FT	CARBONYD	24	24	N-LINKED (GLCNAC. . .) (POTENTIAL).	RL Submitted (XXX-1993) to the EMBL/GenBank/DDBJ databases.
FT	SULFID	119	198	BY SIMILARITY.	-1- FUNCTION: This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. The activity of this receptor is mediated by G proteins that stimulate adenylyl cyclase. It has a high affinity for tricyclic psychotropic drugs.
FT	LIPID	327	327	S-palmitoyl cysteine (Potential).	CC
FT	VARIANT	83	83	N -> T (in dbSNP:1065191).	CC
FT	CONFFLICT	284	284	/FTID=VAR 011703.	CC
FT	CONFFLICT	321	321	V -> F (IN REF. 4 AND 5).	CC
FT	CONFFLICT	365	365	S -> F (IN REF. 5).	CC
SO	SEQUENCE	388	AA;	P -> K (IN REF. 2).	CC
SO	SEQUENCE	41894	MW;	8BCCD695F3BC2F5 CRC64;	CC
Query Match		13.1%		Score 243.5; DB 1; Length 388;	CC
Best Local Similarity		25.5%		Fred. No. 3.8e-11;	CC
Matches	84;	Conservative	55;	Mismatches 124; Indels 67; Gaps 10;	CC
Qy	2	GPGEAALLGIL-----VMTIALVANLNLNCCAYASAEILRTASGVNLNLGLHIL	55	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).	CC
Db	38	GPGDAAAGMVAQCIYALCYLVGLVGNALTVFVILRYAKMT-ATINILNLVADELF	96	CC	
Qy	56	AALDMPTTLLGMRGPTPSAARGACQVIGELDTFLASNALSAALSADQWAVGEPFLYA	115	CC	
Db	97	-MLSVPFVASSAALRHPMPFGSVLCAVLSDGLNNFTSVECLTVLSVDIYAVVHPKRAA	155	CC	
Qy	116	GRLRPRYAGLILGCCWQSL-----AFSGAAGLCS-WLGYSAAFASCSL	159	CC	
Db	156	TYRPRPSVAKLUNLGNWLASLVLTVLPIAIFADTRPARGQAVACNLW-----	202	CC	
Qy	160	DPPEPPRPRPFAFTATLHAGFVPLPLAVLCLITSLOVHVARRHORMDTVTMKAALLAD	219	CC	
Db	203	---PHPAWSAVVYVYTFELLGFLLPVLAIG-----CYLLTVGKRAVALRAG	246	CC	
Qy	220	IHPSPVQRCLLQQKERRHRATRKIGIAIAFLICFAPYMTTRAILVLPFVTVNRAQWGLIS	279	CC	
Db	247	WQ-----QRRSEKKTTRVLMVNVVFLCIMPFLVQVFLNLU-VTSLDATTNVHVS	296	CC	
Qy	280	KCLTYSKAVADPFTYSSL---RRPFRQVL	305	CC	
Db	297	LILSYANSANCAPILNGFLSDNFRSPQRVL	326	CC	
RESULT 8					
ID	5H6_RAT	STANDARD;	PRT;	436 AA.	
AC	P31380				
DT	01-JUL-1993	(Rel. 26,			
DT	01-NOV-1995	(Rel. 32,			
DT	15-DEC-1998	Last sequence update)			
DB		15-DEC-1998 (Rel. 37,			
DE		Last annotation update)			
DE		5-hydroxytryptamine 6 receptor (5-HT-6) (Serotonin receptor)			
DE		(ST-B17).			
GN	HTR6.				
OS	Rat				
OC	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognath; Muridae; Murinae; Rattus.				
OC					
OX					
RN	[1]				
RN	[2]				
RP	SEQUENCE FROM N.A.				
RC	STRAIN=Sprague-Dawley; TISSUE=Striatum;				
RX	Medline=91196604; PubMed=8389146;				
RA	Monsma F.J. Jr.; Shen Y.; Ward R.P.; Hamblin M.W.; Sibley D.R.;				
RT	"Cloning and expression of a novel serotonin receptor with high affinity for tricyclic psychotropic drugs.";				
RT					
RL	Mol. Pharmacol. 43:320-327(1993).				
RN					
RP	SEQUENCE FROM N.A. MEDLINE=91196604; PubMed=8389146;				
RX	Ruat M.; Traiffort E.; Arrang J.-M.; Tardivel-Lacome J.; Diaz J.;				
RA	Leurs R.; Stewart J.-C.;				
RA	"A novel rat serotonin (5-HT6) receptor: molecular cloning, localization and stimulation of cAMP accumulation.";				
RT					
RL	Biochem. Biophys. Res. Commun. 193:268-276(1993).				
Query	2 GCGEA-----LLGLLMLVAVLNLNLCCAYAELTRASGVNLVNLNLGLH	53			
Db	16 GCGGPPAPGGSGWVAALCYVVLTAANSLVJLCTQPLALNT-SNFVLVSLFTSDL	73			
Qy	54 LLAALDMPFTLIGVNGRGPSPAGACQVIGPLDTFLASNSAQLQWAVGFLR	113			
Db	74 MTGLVVMPPAMINALYGRWVILARGLCLLWTAIDVNCASCASILNLCLISDRYLILSPLR	133			

Qy 114 YAGR-L-RPVAGLLLGANGQSLA---PSGAALGCSWLGSSAFASCSLRLPPEPERPR 168
 Db 134 YKIRNTPAARPLAATLG-AV-SPLAASSFLPLLGWHEIKART-----PAPGCR 181
 Qy 169 FAF---FTTALHAYFVFLPLAVLCLTSVHRYARRECORDTVT-----MKALALLA 218
 Db 182 LLASLSPFLVLAWSGTVFPLSGAICITYCPLLLARKQAVQASLTGTAGQALETQVPR 241
 Qy 219 DLHPSVR---ORCLIOOKRERRHATRKGIAATFLICFAPYTMTRIAEYLPFVTVNAQ 274
 Db 242 TPRPMEADSRRLLATKSHSTRALKASLTGILGMPFTWLPFFVNTIAQAVCDCISPGL 301
 Qy 275 WGILSKCLTYSKAVADPFTYSLRLRPFQYI 305
 Db 302 FDVLTL-WLGCFNSTMNPITYPLPLFDFGAL 331

RESULT 9
 HH2R_CAVPO STANDARD; PRT; 359 AA.
 ID_HH2R_CAVPO
 AC P47747;
 DT 01-FEB-1996 (Rel. 33, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Histamine H2 receptor (H2R) (Gastric receptor 1).
 GN H2R.
 OS Cavia porcellus (Guinea pig).
 OC Metzooa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Hstricognathi; Caviidae; Cavia.
 OX NCBI_TaxID:10141;
 RN [1]
 RP SEQUENCE FROM N.A.
 STRAIN=Hartley; ISSUE=Liver;
 TRAJECTOR E.; Submitted (APR-1995) to the EMBL/GenBank/DDBJ databases.
 CC -!- FUNCTION: The H2 subclass of histamine receptors mediates Gastric acid secretion. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase.
 CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
 CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce> or send an email to license@isb-sib.ch).
 CC DR EMBL; U25140; AAA65713.1; -.
 DR PIR; JC4120;
 DR HSSP; P29274; IMMH;
 DR InterPro; IPR000276; GPCR_Rhodopsn.
 DR PRINTS; PR00237; GCRRHODOPSN.
 DR PROSITE; PS00231; G PROTEIN RECEP_F1_1;
 DR PROSITE; PS00264; G PROTEIN RECEP_F1_2;
 KW G-Protein coupled receptor; Transmembrane; Glycoprotein; Lipoprotein;
 KW Palmitate.
 KW PT DOMAIN 1 22 EXTRACELLULAR (POTENTIAL).
 PT DOMAIN 1 22 EXTRACELLULAR (POTENTIAL).
 PT DOMAIN 23 44 1 (POTENTIAL).
 PT DOMAIN 45 57 CYTOPLASMIC (POTENTIAL).
 PT DOMAIN 58 81 2 (POTENTIAL).
 PT DOMAIN 82 92 EXTRACELLULAR (POTENTIAL).
 PT DOMAIN 93 114 3 (POTENTIAL).
 PT DOMAIN 115 134 CYTOPLASMIC (POTENTIAL).
 PT DOMAIN 135 159 4 (POTENTIAL).
 PT DOMAIN 160 180 EXTRACELLULAR (POTENTIAL).
 PT DOMAIN 181 204 5 (POTENTIAL).
 PT DOMAIN 205 234 CYTOPLASMIC (POTENTIAL).
 PT DOMAIN 235 258 6 (POTENTIAL).
 PT DOMAIN 257 267 EXTRACELLULAR (POTENTIAL).

PT TRANSMEM 268 289 7 (POTENTIAL).
 PT DOMAIN 290 359 CYTOPLASMIC (POTENTIAL).
 PT SITE 98 98 ESSENTIAL FOR HISTAMINE BINDING (BY SIMILARITY).
 PT SITE 186 186 ESSENTIAL FOR TICITDINE BINDING AND IMPLICATED IN HISTAMINE BINDING (BY SIMILARITY).
 PT SITE 190 190 IMPLICATED IN HISTAMINE BINDING (BY SIMILARITY).
 PT LIPID 305 305 S-Palmitoyl cysteine (By similarity).
 PT CARBOHYD 4 4 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT DISULFIDE 91 174 BY SIMILARITY.
 SQ SEQUENCE 359 AA; 40556 MW; 58DB81BB8FC3C0E9 CRC64;
 Query Match 12.5%; Score 232.5; DB 1; Length 359;
 Best Local Similarity 22.0%; Pred. No. 2.3e-10;
 Matches 73; Conservative 67; Mismatches 139; Indels 53; Gaps 8;

Qy 11 LIVMVNLAVALLSNALVLLCACCAYSAFLTRASGVLVNLNSIGHHLAAALDMPFTLGVNMRG 70
 Db 24 ILLILILVTVAGNNVYCLAYGLNRRLRS-LTNCFCIVSLLAVTDLGLLGLVTPSAYIQLSC 82
 Qy 71 RTPSAPAGCQVCGVGFDTFLASNAALSVAAALSDQNLAVAFPLKAGRFLPRYAGLIG 130
 Db 83 KMSFSKVECNYTSLSUDMLCTASILNLFLMSLDRCATDPFLRYPLTPARVAILVPI 142
 Qy 131 WQCSLIAFGAALGCSWLY -----SSAFASCISRLPPEPERPFAAFTLHVGFLP 184
 Db 143 WVISITLSEFLSHGNSRNETSKNDTIVKCKYQVN -----EVYGVHDGVTFVLP 194
 Db 145 LAVLCUTSLQHVARHRCORMDTV-TMKALALLDHPSPVRQRCLQKRRRERATRKI 243
 Qy 185 LLMICITYFRPKIAEQARRINHGSWRATI-----REHKAVTIL 236
 Db 195 LLMICITYFRPKIAEQARRINHGSWRATI-----REHKAVTIL 236
 Qy 244 GIAIAFLICPAPYMTMRLAELVPTV-----TVNAQGILSKCLTYSKAVADPFTYS 295
 Db 237 AAVMGFIICWFPY-----FTVTVYRGLKGDDAVNEVFFEDVVLWLGANSALNPILYA 289
 Qy 296 LIRRPPQVLAGMWHRLKRTPRPASTHDSL 327
 Db 290 ALNDRPTA---YHOLFCCRCLASHNSL 317

RESULT 10
 SF4 MOUSE STANDARD; PRT; 368 AA.
 ID_SF4_MOUSE STANDARD; PRT; 368 AA.
 AC P97288; 089003; Q9R2AA;
 DT 15-JUN-1998 (Rel. 36; Created)
 DT 15-JUN-1999 (Rel. 38; Last sequence update)
 DT 10-OCT-2003 (Rel. 42; Last annotation update)
 DE 5-hydroxytryptamine 4 receptor (5-HT4) (Serotonin receptor) (5-HT4).
 GN HTR4.
 OS Mus musculus (Mouse).
 OC Metaoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID:10096;
 RN SEQUENCE FROM N.A.
 RC STRAINSwiss; TISSUE-Brain;
 RC MBDLINE=97102700; PUBMED=846567.
 RN RN
 RN "Cloning, expression and pharmacology of the mouse 5-HT(4L) receptor.";
 RL FEBS Lett. 398:19-25 (1996).
 RN [12]
 RN REVITIONS TO C-TERMINUS.
 RA Dumuis A.;
 RA Claeysen S.; Seben M.; Journot L.; Bockaert J.; Dumuis A.;
 RA Submitted (SEP-1998) to the EMBL/GenBank/DBJ databases.
 RL [3]
 RN SEQUENCE FROM N.A. (ISOFORMS 5-HT4 (A) AND 5-HT4 (E)).
 RP STRAINSwiss; TISSUE-Brain;
 RC MEDLINE=99127199; PubMed=928238;
 RX RA
 RA Claeysen S.; Faye P.; Seben M.; Taviaux S.; Bockaert J.; Dumuis A.;
 RA

FT	VARSPLTC	360	388	/FTID=tsp 001852; /DEFSEQ=WSERCHLTTATSPLYVAAQPSDT -> PVPV (in Isoform 5-FT4 (R)).
FT	SEQUENCE	388 AA;	43931 MW;	/FTID=tsp 001853; /DEFSEQ=F84163P39BA115B0 CRC64;
Query Match	Best Local Similarity	12.5%	Score 232; DB 1;	Length 388;
Best Local Matches	83; Consistency	22.1%	Pred. No. 2,7e-10;	
Qy	5 EALLAGLIVMLAVALLSNALVILCCAYSAEERTRASGVVIVNLNSLGHLLIAALDMPTL	64		
Db	19 KVVLTLTFLAVVILMAILGNLLVNAVDRQIRKINNYFTISLAFDILVSVLVMFGA	78		
Qy	65 LGYMRGRGTPSPACQGQVQIGFLDTPLASMAALSVAALSADQWLAVGFL-PLRYAGRRLRPRYA	123		
Db	79 IELVQDIWAGEMFLCYRTSLDVLTLTASIFHLLCISLDRTYAIQCCPQVYKMTPLRI	138		
Qy	124 GLLIGCWGQSIAFSGAQLGCSW-----GQSSAPASCSCLRLPPEPERPRA	170		
Db	139 ALMGGCTVLPMEISFLPIMQGWNNGIIVDVIKEKRSKSHNSNSTWCYEMV-----NKP-----	191		
Qy	171 AFTATLIAFGVFLPLAVLCLTSHQVHVARHQCQRMPTV-----TMKALLALDLHBPV	225		
Db	192 -YATTCVSVAFYIPLFLMLVLAFLTRITTAHQIQMLQRAGATSSRSPQADQHSTHR	250		
Qy	226 ORCLIQOKRRHFAKTRKIGIAATFLICFAPYKMTTRIAELVPFV--TVAQNGILSCLT	283		
Db	251 M-----RTETAAKAKTCVINGCFCFWAPPEFTNVD--PFDIYTPBQEWTATFLWLG	301		
Qy	284 YSKAVADPFTYLLRPRQVLAGMVRLLKRTPRRSTHDSSLVAQMVHQLIKPT-PR	342		
Db	302 YINSLNLFLYALNKSSPRAFLILCCDDERYKRP-----PIIGQTVPC	346		
Qy	343 PASHNGSYDTENDS	357		
Db	347 STTTINGSTHVLRDA	361		
RESULT 11				
SS5R5_HUMAN STANDARD; PRT; 364 AA.				
ID	SS5R5_HUMAN			
AC	P35346; P34988; Q9UJ5;			
DT	01-JUN-1994 (Rel. 29, Created)			
DT	16-OCT-2001 (Rel. 40, Last sequence update)			
DT	15-MAR-2004 (Rel. 43, Last annotation update)			
DE	Somatostatin receptor type 5 (SS5R).			
GN	Homo sapiens (Human)			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
NCBI_TaxID	9606;			
RN	[1] -			
SEQUENCE FROM N.A. MEDLINE:94195267; PubMed=7908405;				
RP	Panetta R., Greenwood M.T., Kubota A., Demchishyn L.L., Day R.,			
RA	Yamada Y., Kagimoto S., Kubota A., Yasuda K., Masuda K., Someya Y.,			
RA	Nizink H.B., Srikant C.B., Patel Y.C.,			
RA	"Molecular cloning, functional characterization, and chromosomal			
RT	localization of a human somatostatin receptor (somatostatin receptor			
RT	type 5) with preferential affinity for somatostatin-28.",			
RL	Mol. Pharmacol. 45:417-427(1994).			
RN	[2] -			
RP	SEQUENCE FROM N.A. MEDLINE:93384611; PubMed=8373420;			
RA	Panetta R., Greenwood M.T., Kubota A., Demchishyn L.L., Day R.,			
RA	Yamada Y., Li Q., Imura H., Seino S., Seino Y.,			
RA	"Cloning, functional expression and pharmacological characterization			
RT	of a fourth (hSS5R4) and a fifth (hSS5R5) human somatostatin receptor			
RT	subtype.",			
RL	Biochem. Biophys. Res. Commun. 195:844-852(1993).			
RN	[3] -			
RP	SEQUENCE FROM N.A. MEDLINE:94354492; PubMed=8078491;			
RA				

O'Carroll A.-M., Raynor K., Lolait S.J., Reisine T., Somatostatin receptor SSTR5. ";

RA "Characterization of cloned human somatostatin receptor SSTR5. ";

RT Mol. Pharmacol. 46:291-298 (1994).

RL [4]

RP SEQUENCE FROM N.A. MEDLINE=1096910; PubMed=11157797;

RX J. Pediatr. 138:1121; Lloyd C., Horsley S.W., Clark K., Flint J., Tufarelli C., Kearney L., Buckle N.A., Doggett N.A., Flint J., Higgs D.R., "Sequence, structure and pathology of the fully annotated terminal 2 Mb of the short arm of human chromosome 16.";

RL Hum. Mol. Genet. 10:339-352 (2001).

RN [5]

RP SEQUENCE FROM N.A.

RA Basgalle C. Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.

CC -!- FUNCTION: Receptor for somatostatin 2B and to a lesser extent for somatostatin-14. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase.

CC -!- SUBCELLULAR LOCATION: Integral membrane protein.

CC -!- TISSUE SPECIFICITY: Adult pituitary gland, heart, small intestine, adrenal gland, cerebellum and fetal hypothalamus. No expression in fetal or adult kidney, liver, pancreas, uterus, spleen, lung, thyroid or ovary.

CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@isb-sib.ch).

CC EMBL: Li4865; AAA22828; 1; -;

DR EMBL; D16827; BAA0107; -;

DR EMBL; A2006466; AA61266; 1; -;

DR EMBL; AL031713; CAE56181; 1; -;

DR PIR; I57955; I57955; PIR; JN0763; JN0763;

DR HSSP; P0299; 1F88; DR Gene; HGNC:11334; SSTR5.

DR MIM; 182455; -;

DR GO; GO:0004994; C: integral to plasma membrane; TAS.

DR GO; GO:0007187; P: somatostatin receptor activity; TAS.

DR GO; GO:0004994; P: somatostatin receptor activity; TAS.

DR InterPro; IPR000276; GPCR_Rhodopsin.

DR Pfam; PF00001; 7tm_1; 1.

DR PRINTS; PR00237; GPCR_Rhodopsin.

DR PROSITE; PS00237; G PROTEIN RECEPTOR_F1_1.

DR PROSITE; PS50262; G PROTEIN RECEPTOR_F1_2; 1.

KW G-protein coupled receptor; Transmembrane; Glycoprotein; Multigene family; Lipoprotein; Palmitate; phosphorylation.

FT DOMAIN 1 38 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 39 66 CYTOPLASMIC (POTENTIAL).

FT DOMAIN 67 76 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 77 101 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 102 113 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 114 135 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 136 157 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 158 178 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 179 197 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 198 222 CYTOPLASMIC (POTENTIAL).

FT DOMAIN 223 247 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 248 273 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 274 283 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 284 308 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 309 364 CYTOPLASMIC (POTENTIAL).

FT CARBOHYD 1.3 13 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 26 26 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 187 187 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT DISULFID 112 BY SIMILARITY.

FT LIPID 320 320 S-palmitoyl cysteine (Potential).

FT MOD RES 325 325 PHOPHORYLATION (BY PKA) (POTENTIAL).

FT CONFLICT 335 335 P->L (IN REF. 4 AND 5).

FT CONFLICT 348 352 PPAR -> RPRT (IN REF. 1).

SEQ SEQUENCE 364 AA; 39202 MN; 905744715F31121C CRC64;

Query Match 12.5%; Score 231.5; DB 1; Length 364;

Best Local Similarity 25.0%; Pred. No. 2.8e-10;

Matches 92; Conservative 51; Mismatches 166; Indels 59; Gaps 11;

QY 2 GPGEALLAGLIVMVLAVALLISNALVLLCAYASABLRTRASGVLLNLIGLHLAALDMP 61

37 GARAVLPVLYLCAAGGGNTLVYVYTRFAMKT-.VNIVYLNLLAVADVL-MLGLP 94

QY 62 FTLLGMYMRGRTPSAAGCQVIGRTPELTLASNAAL-SVALAISADQWLVAVGPRLYAGRLRR 121

Db 95 FLATONAAASMPFGVLICRIVMTLDGVNOFTSVCLTMNSVDRLLAVTHPLSSARWRER 154

QY 122 YAGLLIGCAGQSLSAFS-----GAALGCSWGLYSSAFASCSIRLPPBPERPRA 170

Db 155 VAKLASSAAATVSLSLNSLPLLVADVQEGCTCNASW-----PEPVGLMGA 199

QY 171 AFTATLHAYFVFLPLAVLCLTSLQYHRARRHCCORMDTYTMKALALLADLHPSTQRCHI 230

Db 200 VFLIIITAVPLAVPLVICH-----CYLLIVKVRKA-----AGYRVGCV- 238

QY 231 QKQRHRHATRKIGIAATPLICLAPYV--MTRLAELVPPFTVNAQNGILSKLTYSKA 287

Db 239 -RRRSERKTRVMLVYVVLVPGCMLPFPFTVNVLAVLQPEPASAGLFFVVLISYNS 297

QY 288 VADPFTYSLRRPFRQVLAGMVRHLKRPRASTHSSLDVAGMVQLIKRTRPAS-S 345

Db 298 CANPVLYGFSLDNFROSQRYV--LCLRKSGADADATEPRPDRIRQQEATs-PAHRA 353

QY 346 THNGSYDT 353

Db 354 AANGLMQT 361

RESULT 12

BT B3AR HUMAN STANDARD; PRT; 408 AA.

AC P13945;

DT 01-JAN-1990 (Rel. 13, Created)

DT 01-FEB-1994 (Rel. 28, Last sequence update)

DT 10-OCT-2003 (Rel. 42, Last annotation update)

DR Beta-2 adrenergic receptor.

DR ADRB3 OR ADRB3R OR B3AR.

GN Homo sapiens (Human).

OS Homo sapiens; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OC NCBI_TaxID=9605;

RN SEQUENCE FROM N.A.

RN MEDLINE=89168947; PubMed=2570461;

RN Emorine L.J., Marullo S., Briend-Sutren M.-M., Patey G., Tate K., Delavier-Klutschko C., Strosberg A.D.;

RA "The promoter and intron/exon structure of the human beta 3-adrenergic receptor gene." J. Biochem. 213:1117-1124 (1993).

RN SEQUENCE FROM N.A.

RN MEDLINE=93279311; PubMed=8389293;

RA van Spronsen A., Naimias C., Krief S., Briend-Sutren M.-M., Strosberg A.D., Emorine L.J.;

RA "The promoter and intron/exon structure of the human and mouse beta 3-adrenergic receptor gene." J. Biochem. 213:1117-1124 (1993).

RN SEQUENCE FROM N.A.

RN MEDLINE=9328530; PubMed=8389171;

RA Lelias J.M., Keghad M., Rodriguez M., Chalon P., Bonnin J., Dupre I., Delpech B., Bensaid M., Lefur G., Ferrara P., Caput D.;

RA "Molecular cloning of a human beta 3-adrenergic receptor cDNA." J. Biochem. 213:1117-1124 (1993).

CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
 CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation
 CC use by non-profit institutions as long as its content is in no way
 CC modified and this statement is not removed. Usage by and for commercial
 CC entities requires a license to license@eisb-sib.ch/announce/
 CC or send an email to license@eisb-sib.ch.

CC DR: AFO4143; ANC9801.1; - .

DR Genew; HGNC:184B; HCRTR1.

DR MIM: 602392; - .

DR GO; GO:000587; C:integral to plasma membrane; TAS.

DR GO; GO:00104930; P:G-protein coupled receptor activity; TAS.

DR GO; GO:0007331; P:feeding behavior; TAS.

DR GO; GO:0007218; P:neuropeptide signaling pathway; TAS.

DR GO; GO:0007268; P:synaptic transmission; TAS.

DR InterPro; IPR004059; Orexin_receptor.

PFam; PF00001; 7cm1.1.

DR PRINTS; PRO5521; OREXIN1R.

DR PROSITE; PS00237; G PROTEIN RECEPTOR_F1_1; 1.

DR PROSITE; PS00262; G PROTEIN RECEPTOR_F1_2; 1.

KW G-protein coupled receptor; Transmembrane.

PT DOMAIN 1 46 EXTRACELLULAR (POTENTIAL).

PT DOMAIN 47 67 1 POTENTIAL).

PT DOMAIN 68 80 CYTOPLASMIC (POTENTIAL).

PT TRANSMEM 81 102 2 (POTENTIAL).

PT DOMAIN 103 119 EXTRACELLULAR (POTENTIAL).

PT TRANSMEM 120 142 3 (POTENTIAL).

PT DOMAIN 143 164 CYTOPLASMIC (POTENTIAL).

PT TRANSMEM 165 185 4 (POTENTIAL).

PT DOMAIN 186 216 EXTRACELLULAR (POTENTIAL).

PT TRANSMEM 217 239 5 (POTENTIAL).

PT DOMAIN 240 298 CYTOPLASMIC (POTENTIAL).

PT TRANSMEM 299 321 6 (POTENTIAL).

PT DOMAIN 322 336 EXTRACELLULAR (POTENTIAL).

PT TRANSMEM 337 360 7 (POTENTIAL).

PT DOMAIN 361 425 CYTOPLASMIC (POTENTIAL).

PT CARBOHYD 194 194 N-LINKED GLYCOSYLATION (POTENTIAL).

SEQUENCE 425 AA; 1634083DELOCA092 CRC64;

SQ 124 LGYMRGRGTPSAPGACOYTGFLDTFLASNAALSAAASDQDIAVGFPLRYAGRRLPRYAG

125 Score 229.5; DB 1; Length 425;
 Best Local Similarity 25.3%; Prcd. No. 4.5e-10;
 Matches 94; Conservative 55; Mismatches 154; Indels 69; Gaps 13;

Qy 5 EALIAGLIVMVLAVALLSNALVILCCAYSAEIRTRASGVLYLNLSLGHLLIAALDMPFTL 64

Db 46 EWTLLIAATVAVFTVAVLGVNTLCLAVRNHRHT-VNLYFTVNLSLADVLVTAICPASL 104

Qy 65 LGMVRGRGTPSAPGACOYTGFLDTFLASNAALSAAASDQDIAVGFPLRYAGRRLPRYAG 124

Db 105 LVDTSWMLPGLHACKVPPYQAVSVYAVLTISFIADLWTAICPELFFSTAR-RARG 163

Qy 125 LIGGCANGOSLAPSAGAALGCSNLGYSSAFAFASCSLRLPPEPPERPFAA-----FTA 174

Db 164 SING-IWASL-----MVPQAQAVMCESSVLPVELANTRLFSVCDRADDLYPK 213

Qy 175 THAVGFLP-LAVLCLTSLOVERVARRHCOAMDITVMMKALA-----LIADL---- 220

Db 214 IVHSCCEFTVYPLAPLGMAMAYAQIIFRKLGQIPTGTTSAVTRNWKRPSPDQGDLEQQLS 273

Qy 221 -HPSVQRCL--IQQRERRRHRATRKIGIAATFLCPAP-----YVMTRIA--- 263

Db 274 GEOPGRGAFLAEVKONRARRKPAKMLMVVFLAFALCYPLSVNLVKGFMQASDR 333

Qy 264 ELYPFVTYNAQWGLSKLTYSKAVADFTYSLRSPFQV-----AGMVHRLL 313

Db 334 EAVACPTFSHW-----LYVANSAAAPLTPINFLSGKPREQKAFAFSCLCPLGPCCSLK 387

Qy 314 KRTPRPASTHDS 325
 Db 388 APSRSSASHKS 399

RESULT 15

SSRS5 MOUSE STANDARD; PRT; 362 AA.

ID SSR5_MOUSE; 008998; 008998; 01-NOV-1997 (Rel. 35, Created)
 DT 15-OCT-1998 (Rel. 36, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)

DR Somatostatin receptor type 5 (SSSR).
 SSTR5 OR SM3T5.

OS Mus musculus (Mouse).

OC Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

NCBI TaxID:10090; [1] -

RN SEQUENCE FROM N.A.
 RC STRAIN=129/SvJ; TISSUE=Liver;
 RX MEDLINE=97444289; PubMed=9300821;

RA Lublin A.L., Diehl N.L., Hochgeschwender U.;
 RT "Isolation and characterization of the gene encoding the type 5 mouse (Mus musculus) somatostatin receptor (mssrt5)." Gene 195:63-66 (1997).

RN [2] -

RN SEQUENCE FROM N.A.
 RC Moldovan S., Demayo F., Brunicardi F.C.; Submitted (JUN-1997) to the EMBL/GenBank/DBJ databases.

RN [3] -

RN SEQUENCE FROM N.A.
 RC STRAIN=BALB/c; TISSUE=Liver;
 RA Gordon D.F., Woodchancee W.W., Wood W.M., Knauf H., James R.A.; Submitted (OCT-1997) to the EMBL/GenBank/DBJ databases.

RN [4] -

RN SEQUENCE FROM N.A.
 RC Baumeister H., Roosterman D., Schafer J., Kreuzer O., Meyerhof W.; Submitted (DEC-1997) to the EMBL/GenBank/DBJ databases.

CC -!- FUNCTION: Receptor for somatostatin-2B. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase.
 CC -!- SUBCELLULAR LOCATION: Integral membrane protein.

CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.

CC -!- This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.eisb-sib.ch/announce/> or send an email to license@eisb-sib.ch).

CC -!- EMBL; AF00474; AAB61418.1; - .
 CC -!- EMBL; AF03044; AAB86432.1; - .
 CC -!- EMBL; AF035777; AAB88302.1; ALT_INIT.
 CC -!- HSSP; P0699; 1FB8.
 CC -!- MGD; MGI:894282; Sstr5.
 CC -!- InterPro; IPR00001; IPR00276; GPCR_Rhodopsin.
 DR Pfam; PF00001; 7cm1.1;
 DR PRINTS; PR00237; GPCR_RHOODSN.
 DR PROSITE; PS00237; G PROTEIN RECEPTOR_F1_1; 1.
 DR PROSITE; PS050262; G PROTEIN RECEPTOR_F1_2; 1.
 DR KW G-protein coupled receptor; Transmembrane; Glycoprotein; Multigene family; Lipoprotein; Palmitate.
 DR DOMAIN 1 35 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 36 63 1 (POTENTIAL).
 FT DOMAIN 64 73 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 74 99 2 (POTENTIAL).
 FT DOMAIN 100 110 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 111 132 3 (POTENTIAL).

PT DOMAIN 133 154 CYTOPLASMIC (POTENTIAL).
 PT TRANSEM 155 175 4 (POTENTIAL).
 PT DOMAIN 176 195 EXTRACELLULAR (POTENTIAL).
 PT TRANSEM 196 220 5 (POTENTIAL).
 PT DOMAIN 221 246 CYTOPLASMIC (POTENTIAL).
 PT TRANSEM 247 272 6 (POTENTIAL).
 PT DOMAIN 273 282 EXTRACELLULAR (POTENTIAL).
 PT TRANSEM 283 307 7 (POTENTIAL).
 PT DOMAIN 308 362 CYTOPLASMIC (POTENTIAL).
 PT CARBOHYD 13 13 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 23 23 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 185 185 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT DISULFID 109 184 BY SIMILARITY.
 PT CONFLICT 99 99 V-> VV (IN REF. 1).
 PT CONFLICT 303 305 YGF-> LWL (IN REF. 2).
 SQ SEQUENCE 362 AA: 39948 MW: AA091DD570FDAB CRC64:

Query Match 12.3%; Score 229; DB 1; Length 362;
 Best Local Similarity 25.7%; Pred. No. 4.2e-10;
 Matches 95; Conservative 53; Mismatches 162; Indels 60; Gaps 13;
 Qy 1 MGPGEAALLAGLIVMVTLAVALLISNALVLLCAYSAELURTRASGVLLVNLISLGHILLAAALDM 60
 Db 33 NGARAVLVPVLYLLVCTVGJGGNTLVVYVRYAKMKT-VNTNTYILNLAVADLF-MIGL 90
 Qy 61 PFTLIGMNRGRTPSAAGACOVTGFLDFTFLNSNRAALSVAAALSDONLAVSFPLRVAGRPF 120
 Db 91 PFLATONAVSISWPPFGSFLCLRLWMLDINGQTSICLMMNSVDRYLAVTHPLSARWRP 150
 Qy 121 RYAGLILGANGSOSIAFSGAALGCSWLGYYSSAFASCSLRLPPPEPERPRAAFTATLHVG 180
 Db 151 RVAKLAAAVVNEFSLNISLPLI--VPAADVQEGWGTNCNLSMI-PEPVGLWAAFTYTSTLG 207
 Qy 181 FVLPPLAVLCTISLOVHRVARRHQCMDTIVTMKALLADLHPSYRQCLQKERRHAT 240
 Qy 208 FFGPLLVICL-----CYLIVVVKYAAAGMRVG----SSRRR----RSERKV 246
 Qy 241 RKIGIAATATFLICFAPYVMTRIAEL--VPPVTNTAQWGLSKCITYSKAVADPFTYSL 297
 Db 247 RMVYVYVLYFGCWLFFIVNIVNLAFTLPEEPTAGLYFFVYVLSYANSCANPLLYGFL 305
 Qy 298 ---RREFRQVLAGMVERLLR-----TPPASTDSSLDVAGMWHQLIKRTRP 343
 Db 307 SDNFRQSFRAIC----LRRGYGVEDAIEPRP-----DKSGRFQTLW---PTR 349
 Qy 344 ASTHNGSVDT 353
 Db 350 SCBANGIMQT 359

Search completed: May 18, 2004, 12:07:09
 Job time : 20 secs

Qy	125	LLGCAGQSLAFSGAAGCCSWLGSS-----AFASSLRLPPEPERPRAAFTATL	Db	8	LLGLFSVLLITLPGNLLVCAILWDLRSRKOPENFLVSLAVSDLIVSVLMLFAAVND			
Db	128	VLV---WLISAGIGAPLG---FGFCSKVTTINNLTGLPCEMRLP-----LPAIGS	Qy	68	MGRTPSAPGACQVIGLDTFLASNALSYALSAQWLLAYGFPE---LRYAZGRLRPRYAG 124			
Qy	177	HAVGFVPLPLAVLCLTSQVHVARREHQMDTVMKALAL-----ADLHPSPVOR	Db	68	ILGYWPQFYQFWISFDITCTASILNLCAISLDYWHISRPWVYIVCNRRINIVI 127			
Db	174	SMVSFFLPAMMVILYKLYARKVRSKTTQLOQSTSFLIMQLAKEKREIRTSIFSK	Qy	125	LLGCAGQSLAFSGAAGCCSWLGSS-----AFASCSLRLPPEPERPRAAFTATL			
Qy	228	---CLIQQERR-----HRATRKIGIAATPLICPAFYWTR-----LPAIGS	Db	128	VIV---WLISAGIGAALG---FGFSSKVTTINNLTGLPCEMRLP-----LPAIGS 173			
Db	234	LNFLCPTFRKNQRSPQDPHPTPAHNNSNISDQKARLTGIFTLVCNLPFFIVNLLRA	Qy	177	HAVGPVPLAVLCLTSQVHVARREHQMDTVMKALAL-----ADLHPSPVOR 227			
Qy	262	-LAELVPPVYNA-ONGILSKCQTYSKAVADPFTSLLRPFERQVLAGMWHRL	Db	174	SMVSFFPAMMVILYKLYARKVRSKTTQLOQSTSFLIMQLAKEKREIRTSIFSK			
Db	294	WLPEISSLTMAVTW-----LGYANSSANPLIYTSIFNDFRAFKK1IVRV 340	Qy	228	---CLIQQERR-----HRATRKIGIAATPLICPAFYWTR-----LPAIGS 261			
RESULT 6								
Q86M5		PRELIMINARY;	PRT;	402 AA.	Db			
AC	Q86M5		PRELIMINARY;	402 AA.	Q8BLD9	PRELIMINARY;	PRT;	478 AA.
DT	01-JUN-2003	(TREMBLref. 24, Created)	AC	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DT	01-JUN-2003	(TREMBLref. 24, Last sequence update)	ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DT	01-OCT-2003	(TREMBLref. 25, Last annotation update)	ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DB			AC	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
GN	F15A8.5		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
OS	Caenorhabditis elegans		AC	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
OC	Bukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditidae;		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
OC	Rhabditidae; Pejoderrinae; Caenorhabditis.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
NCBI_TaxID	6239		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RN	[1]		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RP	SEQUENCE FROM N.A.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RC	STRAIN-Bristol N2;		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RX	MEDLINE=99069613; PubMed=9851916;		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RA	Waterson R.;		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RA	"Genome sequence of the nematode <i>C. elegans</i> : a platform for investigating biology." The <i>C. elegans</i> Sequencing Consortium. [1]		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RT	"The sequence of <i>C. elegans</i> cosmid F15A8." [2]		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RT	Submitted (JUN-1997) to the EMBL/GenBank/DBJ databases.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RN	[3]		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RP	SEQUENCE FROM N.A.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RC	STRAIN-Bristol N2;		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RQ	Waterson R.;		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
RL	Submitted (APR-2003) to the EMBL/GenBank/DBJ databases.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
EMBL	U97549; AA091717; 1-		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	GO; GO:0005224; F: ATP binding; IEA.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	GO; GO:004009; F: ATP-binding cassette (ABC) transporter acti. . . IEA.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	GO; GO:001544; F: G-protein-like receptor activity; IEA.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	GO; GO:0007186; P: G-protein coupled receptor protein signalin. . . IEA.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	GO; GO:0006810; P: transport; IEA.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	InterPro; IPR000412; ABC transporters.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
PFAM	PF000001; 7tm1; 1.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	PRINTS; PRO0237; GPCR_Rhodopsin.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	PROSITE; PS00890; ABC2 MEMBRANE; 1.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	PROSITE; PS00237; G-PROTEIN RECEP_F1_1; 1.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
KW	Hypothetical Protein.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
DR	PROSITE; PS00237; G-PROTEIN RECEP_F1_2; 1.		ID	Q8BLD9	PRELIMINARY;	PRT;	478 AA.	
SEQUENCE	402 AA;	45856 MW;	Qy	1	MGPEEALIAGLLVMVLAVALISNALVLLCCAYSAEIRTRASCVLLNTSLGHLLAALDM			
Qy	8	60AB542C0970CBF5 CRC64;	Db	34	LGAAQVVTAGLTLVITLGNVLYCAATVSRHAKMTNIFTYSLAEDLFLVALLVM			
Qy	8	Query Match 12.8%; Score 237; DB 5; Length 402;	Qy	61	PFITLGWNRGRTSAPA-CQVGFELITFLASNALSAALSADQWIAVGPLRAGRL 119			
Qy	8	Best Local Similarity 23.2%; Pred. No. 8.7e-12; Mismatches 61; Conservativeness 61; Indels 69; Gaps 11;	Db	94	PWKAVAEVAGYWF-GAFCDIWAFFIMCSTASILNCLISVDRWAIISPRYERKMT 151			
Qy	8	8 LAGLVMVTLAVLLSNALVLLCCAYSAEIRTRASCVLLNTSLGHLLAALDMPTFLGV 67	Qy	120	PYAGLJLGCAQCQSLAFSGAAGCCSWLGSS-----IGYSSAFASCPRLP-----			

Db	152	QRVALVNVVALAWTLISLISFFIPVQLNWHRDAGSGREGGLISNETPWEGLWLDGRTEN	211	QY	288	VADPPTVSLLRRPFRQVLAGMNH-RLIKRTPRBASTHSSLDVAGM	332
QY	164	-PERPERFAFTATLHAYGFVLPPLAVICLTSIQLVHRYARRHFCORMDTVTMKALALIADLHP	222	Db	313	AINVLYATLNPRERSAFAVVISCKLV-----SSTRARTMDLSGV	352
Db	212	DSSLNRYTAISSL--ISFYIPIAIMIVTYTRIYRAQVQIRR----ISSLBRAEHAQ	264				
QY	223	SYRQR-----CLIQKRRRTRATRIGIALATEFLICFAPYVMTRLAEVLPFVTNAQW	275				
Db	265	SCRSRGACEPDPSLRASTIKRTRKVFITLSVNGVFCPCSGDQA	322				
QY	276	GILS--RQLT-----YSKAVADPPEFYSL--LRRERFROVLAGMTHRLIKRTP	317				
Db	323	GPRTGFPVCSETTDFIFWVGFWMANSSLNPVAFNADFRKVAQLL-GCSH-LCFRTP	378				
RESULT 8							
	Q9HYH3	PRELIMINARY;	PRT;	353	AA.		
	ID	Q9HYH3;					
	AC	Q9HYH3;					
	DT	01-MAY-1999 (TREMBLrel. 10, Created)					
	DT	01-MAY-1999 (TREMBLrel. 10, Last sequence update)					
	DT	01-JUN-2003 (TREMBLrel. 24, Last annotation update)					
	DE	Patellar odont receptor LOR4.					
	OS	Lamperita fluvialitis (River lamprey).					
	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
	OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
	OX	OC					
	NCBI_TaxID	NCBI_TaxID=9606;					
	RN						
	RP	SEQUENCE FROM N.A.					
	RX	MEDLINE-20420525; PubMed=10973318;					
	RX	Peyron C., Faraco J., Rogers W., Rippley B., Overeem S., Charnay Y.,					
	RA	Nevsimalova S., Aldrich M., Reynolds D., Albin R., Li R., Hungs M.,					
	RA	Pedrazzoli M., Padigaru M., Kucherlapati M., Fan J., Makr R., Lammer G.J., Bouras C., Kucherlapati R., Nishino S., Mignot E.,					
	RA	"A mutation in a case of early onset narcolepsy and a generalized absence of hypocretin peptides in human narcoleptic brains.";					
	RT	RT					
	RT	RT					
	RT	RT					
	RT	RT					
	RT	RT					
	RT	RT					
	RN	6:991-997(2000).					
	RP						
	RX	SEQUENCE FROM N.A.					
	RP	RP					
	RA	Yeager M., Welch R., Haque K., Bergen A.,					
	RA	"Genomic sequence of the hypocretin (orexin) receptor 1 (HCRT1)." ;					
	RA	Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.					
	RN						
	RP	SEQUENCE FROM N.A.					
	RX	MEDLINE=11580342; PubMed=11723285;					
	RA	Olafsdottir B.R., Rue D.B., Scammell T.E., Matheson J.K.,					
	RA	Stefansson K., Gulcher J.R.,					
	RA	"Polymorphisms in hypocretin/orexin pathway genes and narcolepsy." ;					
	RL	Neurology 57:1896-1899 (2001).					
	DR	EMBL; AP020284; MAG2B020_1;					
	DR	EMBL; AP020285; MAG2B020_1;					
	DR	EMBL; AP020278; MAG2B020_1;					
	DR	EMBL; AP020279; MAG2B020_1;					
	DR	EMBL; AP020280; MAG2B020_1;					
	DR	EMBL; AP020281; MAG2B020_1;					
	DR	EMBL; AP020282; MAG2B020_1;					
	DR	EMBL; AP020283; MAG2B020_1;					
	DR	EMBL; AP020289; MAG150221_1;					
	DR	EMBL; AP020300; MAG150221_1;					
	DR	EMBL; AP020301; MAG150221_1;					
	DR	EMBL; AP020302; MAG150221_1;					
	DR	EMBL; AP020303; MAG150221_1;					
	DR	EMBL; AP020304; MAG150221_1;					
	DR	EMBL; AP020305; MAG150221_1;					
	DR	EMBL; AP020306; MAG150221_1;					
	DR	EMBL; AP020307; MAG150221_1;					
	DR	EMBL; AP020308; MAG150221_1;					
	DR	EMBL; AP020309; MAG150221_1;					
	DR	EMBL; AP020310; MAG150221_1;					
	DR	EMBL; AP020311; MAG150221_1;					
	DR	EMBL; AP020312; MAG150221_1;					
	DR	EMBL; AP020313; MAG150221_1;					
	DR	EMBL; AP020314; MAG150221_1;					
	DR	GO; GO:00016021; Cintegral to membrane; IEA.					
	DR	GO; GO:0004849; Porexin receptor activity; IEA.					
	DR	GO; GO:0004872; Porexin receptor activity; IEA.					
	DR	GO; GO:00016439; Porexin receptor activity; IEA.					
	DR	GO; GO:00016439; Porexin receptor activity; IEA.					
	DR	GO; GO:00015654; F-ribosinolike receptor activity; IEA.					
	DR	GO; GO:00017186; P-G-protein coupled receptor protein signalin. . . ; IEA.					
	DR	InterPro; IPR001092; HHL_Basic.					
	DR	PRINTS; PR002287; GPCR_RhoBn.					
	DR	PRINTS; PR00237; GPCR_RhoDn.					
	DR	PRINTS; PR00237; GPCR_RhoInR.					
	DR	PROSITE; PS00237; G_protein_RECEP_F1_1; 1.					
	DR	PROSITE; PS00237; G_protein_RECEP_F1_2; 1.					
	DR	InterPro; IPR000459; orexin receptor.					
	DR	Pfam; PF000001; 7m_1.					
	DR	PRINTS; PR00237; GPCR_RhoDn.					
	DR	Query Match	12.5%	Score	231.5;	DB 4;	Length 425;
	Matches	Best Local Similarity	22.0%	Pred.	No. 2,2e-11;	Prod. No. 3,3e-11;	
	76	Conservative	88	Mismatches	147;	Indels 35;	Gaps 10;
	QY	1	WGPGEALLAGLIVMVLAVALLSNALVLLCAYSAELTRASGVLLVNLSEGHLLAALDM	60			
	Db	86	PYSMMKAVKCFYQFDFMLTNSIMHGLCAYDRYVAICDPLRTPQRVTN	145			
	QY	121	RYAGLLGCAWGSLAFTSGAALGCSWYSSAFASCSLRLPEPERPRAFTATHAVG	180			
	Db	61	PFTLGMWGRGTPSAPGQVQGFLDPLFLASNAALSAQDQWLVAGPFLYAGRLP	120			
	QY	181	---FVPLPLAVLCLTSQVHRYARRHFCORMDTVTMKALALIADLHP	231			
	Db	202	VCPYVLLSLTMSVYARIYIVARRQGFIQSSVSLQ----VHAQQQQQQQAEPTRN	254			
	QY	232	OK---RRRHRTRTRKIGIAATEFLICFAPYVMTRLAEVLPFVTNAQWGLSKCUTSYKA	287			
	Db	255	QWWTAMKREHSAAKTGSIIIVGVLISLWLPFNMVVL--FFPNQNSSAAVRTTWIGYSS	312			

Qy 65 LGVMBRGRTPSAPGACQVIGFLDTFLASNALSYAALSADQWTLAVGFPIRYAGRRLPRYAG 124
 Db 105 LVDITESWLFGHALCKVITYLQAVSVSVAVLTLFIAIDRWTIAICHPLFLKSTAR-RARG 163
 Qy 125 LLGGAWGOSLAFASSGAALGCGWLGSSAAPSCLSLRLLPPEPERPFAA-----FTA 174
 Db 164 S1LG-IWASLAI-----MYFQQAAYMEC5VSLPPLANRTRFLFSYCDERWADDLYPK 213
 Qy 175 TLHAVGFVLD-LAVICLTSIQLQHVRARRHICQRMDTVMKALA-----LLADL----- 220
 Db 214 IYHSEFFIIVTYLAPIGLAMAMAYQIFERKLGQRIGFTISALVWNKRESDQGLDLEGLS 273
 Qy 222 -HPSVQRCLU---TQOKRHRHTRKIGIAATPLIFCAP-----YNTMRLA--- 263
 Db 274 GEPQRARALAEVKQMRARRKTAKMLWVLYALCYLPISVNLKVRFGMFRQASDR 333
 Qy 264 ELVPEVTVNQWGLLSKCTYSKAVADPTYSLLRRPPIQLV-----AGMVERLL 313
 Db 334 EAVIACFTFFHW-----LYVANSAANPIIINFSLGKFRQQFKAFSCCLPGLGPCGSLK 387
 Qy 314 KRTPRPASTHDS 325
 Db 388 APSRASSAKS 399

RESULT 10

QBM104 ID QBM104 PRELIMINARY;

PRT; 367 AA.

AC QBM104; PRELIMINARY;

DT 01-OCT-2002 (TREMBurel. 22, Created)

DT 01-OCT-2002 (TREMBurel. 22, Last sequence update)

DT 01-JUN-2003 (TREMBurel. 24, Last annotation update)

DE Somatostatin receptor subtype 5.

GN SST5.

OS Ovis aries (Sheep)

OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Hypoartia;

OC Bovidae; Caprinae; Ovis.

NCBI_TaxID:9940; RN [1]

RN SEQUENCE FROM N.A.

RN TISSUE=Pituitary;

RN Debus N., Doutour A., Boudouresque F., Vuaroqueaux V., Oliver C.,

RN Ouaifik L.;

RN "Molecular cloning and tissue distribution of the ovine somatostatin

RN receptor subtype 5; osst5."; osst5.

RN Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.

RN [2]

RN SEQUENCE FROM N.A.

RN TISSUE=Pituitary;

RN Debus N.;

RN "Regulation of GH secretion in sheep: Role of somatostatin and its

RN receptors";

RN Thesis (1999).

RN Department of Intercellular communications in Endocrinology,

RN University of Aix-Marseille II, Marseille, France.

DR PRINTS; PR00237; G-PROTEIN RECEPTOR F1-1;

DR PROSITE; PS00237; G-PROTEIN RECEP F1-1.

DR PROSITE; PS50267; G-PROTEIN RECEPTOR F1-2.

DR PROSITE; PS50267; G-PROTEIN RECEPTOR F1

Db	142 RVTVRTIAALLVLCWLGAIAFFSPIL---LsfSPTLsRCNIEAASCPCDDCVFSVSGFL 197	Qy	298 ---RRP PROV LAGM VHL LK R-----TPRP ASTHDSS LDVAGM YHQL LK RT PRP 343
Qy	177 FAVG---FVFLAFLCILTSQVHVRARRHFCQMDTIVTMKALLAFLHPSVQRCLQQK 233	Db	330 SDNFRQSFKAIC-----LRRGYVVEDA DADIEPRP-----DRSGRPTTL-- PTR 372
Db	198 WTIGMSPYTAIHVVLYMIVYRARRGSKV-----ADSSAVNM 240	Qy	344 ASTHNGSYDT 353
Qy	234 RRRHATRATKIGIAATFLICPAVYMTRLAE-----LVPFTVNAQWGLSKLTVSKA 287	Db	373 SCBANGLMQT 382
Db	241 KREHSAKTLGAIIGFEMLSWLPYVVAAMSFTDGLFLPYRV--AMW-----IGYCSS 292		
Qy	288 VADPFTYSLRLRPF R-----OVLAGM VHR 311		
Db	293 AINPLLYASFNRPFKTAFDI FRLRUVSGYVRR 325		
		RESULT 13	
		O42316 PRELIMINARY; PRT; 437 AA.	
		AC 042316; ID 042316; PRELIMINARY; PRT; 437 AA.	
		DT 01-JAN-1998 (T-TREMBLrel. 05, Created); DT 01-JAN-1998 (T-TREMBLrel. 05, Last sequence update); DT 01-JUN-2003 (T-TREMBLrel. 24, Last annotation update)	
		DE DIA4 dopamine receptor.	
		OS Cyprinus carpio (Common carp).	
		CC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Cypriniformes; Cyprinidae; Cypriniidae.	
		DB NCBI_TaxID=7962; NCBI_TaxID=7962;	
		RN [1]	
		RP SEQUENCE FROM N.A.	
		RC TISSUE=Retina;	
		RK MEDLINE=9904151; PubMed=9826315;	
		RX Hirano J., Archer S. N., Djamgoz M. B. A., RT "Dopamine receptor subtypes expressed in vertebrate (carp and eel) retina: cloning, sequencing and comparison of five Di-like and three DR-like receptors.", J. Recept. Channels 5:187-404 (1998).	
		RT Recept. Channel 5:187-404 (1998).	
		RL - SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).	
		CC - SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.	
		DR EMBL: Y14627; CAA74971.1; GO: GO:0016021; C: integral to membrane; IEA.	
		DR EMBL: AF268067; AAF2547.1; GO: GO:0004872; F: receptor activity; IEA.	
		DR HSSP: P02699; F088.	
		DR GO: GO:00016021; C:integral to membrane; IEA.	
		DR GO: GO:0004872; F:receptor activity; IEA.	
		DR InterPro: IPR000276; GPCR_Rhodpsn.	
		DR InterPro: IPR000276; GPCR_Rhodpsn.	
		DR Pfam: PF00001; 7tm 1.	
		DR PROSITE: PRO00237; GPROTEIN_RECCEP_F1-1; PROSITE: PS00237; GPROTEIN_RECCEP_F1-1.	
		DR PROSITE: PS00237; G PROTEIN RECCEP_F1-1; PROSITE: PS00262; G PROTEIN RECCEP_F1-1.	
		DR G-protein coupled receptor; Receptor; Transmembrane.	
		DR Sequence: 437 AA; A4414945F2139CE CRC64;	
		DR PRINTS: PF00001; 7tm 1.	
		DR PRINTS: PS00237; GPROTEIN_RECCEP_F1-1.	
		DR PROSITE: PS00237; GPROTEIN_RECCEP_F1-1.	
		DR PROSITE: PS00262; G PROTEIN RECCEP_F1-1.	
		DR G-protein coupled receptor; Receptor; Transmembrane.	
		DR Sequence: 385 AA; 42189 MW; 5BCL140BF09CEB CRC64;	
		DR Best Local Similarity 12.3%; Score 228.5; Length 437; Matches 74; Conservative 79; Mismatches 142; Indels 37; Gaps 13;	
		DR Query Match 7 LLAG-TLVMYLAVALLSNALVLLCCAYSAELTRASGVLLVNLIGHLILAA LDMPFTL 65	
		DR Db 22 VLTGCPFLSLLTLTLLGNTVCAVTFKFLRSLKVNFTVLSISLDAVILYMPWKA 81	
		Qy 1 MGPFGLAAGLVMVLAFLSNALVLLCCAYSAELTRASGVLLVNLIGHLILAA LDMPFTL 60	
		Qy 56 MGARAVLVPVLLCYTGNTLIVYVLRAKMT-VTINYVILNAADVLF-MUGL 113	
		Qy 61 PFTLIGVMGRGRTPSAAGACOVIDFLDTFLASNAALSAVLDLWAGFPLRYAGRILP 120	
		Db 114 PFLATQNAVSYWPPFSLFLRMLTDGQFSTSFCCLVMSVDRYLAVHPRSRARTRP 173	
		Db 121 RYAGLIGCAWGQSLAFSGMAIGCWSLGYSSAFAASCSLRPLPPEPERPFAAFTATLHAVG 180	
		Db 174 RVAKLASAAWVFSLLMSLPLL--VFADYQBGWCTCNLSW-PPPVGLWGAATITYSVLG 230	
		Qy 181 FVFLPAVLCTSLQVHVRARRHFCQMDTIVTMKALLAFLHPSVQRQLIQQKRRERAT 240	
		Qy 231 FFGPLVICL-----CYLIVVKKVKAQMRYG--SSRRR-----RSERKV 269	
		Qy 241 RKGIAATFLICPAVYMTRLAE--VPFTVNAQWGLSKLTVSKA VADPFTYSL 297	
		Db 270 RMVWVWVVFVGCWLPFFIVWVNLAFILPEFTSAGJYFFFVTVSANS CANPLIYGL 329	
		Qy 284 YSKAVADPFTYSL--LRFPRQVLAGM VHL 312	

Db	313	WANSSLNPIIYAFNAGFRKAF-SILLG-CHRL	342
RESULT 14			
Q9PVG0;	PRELIMINARY;	PRT;	367 AA.
AC	Q9PVG0;		
ID			
DT	01-MAY-2000	(TREMBLrel. 13, Created)	
DT	01-JUN-2003	(TREMBLrel. 13, Last sequence update)	
DT	01-JUN-2003	(TREMBLrel. 24, Last annotation update)	
DE	Somatostatin receptor type 1 subtype A.		
GN	ST1A.		
OS	Carassius auratus (Goldfish).		
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
OC	Actinopterygii; Neopeltidi; Ostariophysi; Cypriniformes;		
OC	Carangidae; Carassius.		
OX	NCBI_TaxID=7957;		
RN	11	SEQUENCE FROM N.A.	
RP	SEQUENCE FROM N.A.		
RC	MDLINE=2000:543; PubMed=10537151;		
RX	Lin X., Janovick J.A., Brothers S., Conn P.M., Peter R.E.;		
RA	"Molecular cloning and expression of two type one Somatostatin receptors in goldfish brain."		
RT	receptors in goldfish brain.		
RT	Endocrinology 140:5211-5219 (1999).		
RL			
CC	-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.		
CC	-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.		
DR	EMBL: AF097226; AAF08613.1; -		
DR	GO: GO:0016021; Integral to membrane; IEA.		
DR	GO: GO:004872; F:receptor activity; IEA.		
DR	GO: GO:002184; F:rhodopsin-like receptor activity; IEA.		
DR	GO: GO:002186; P:G-protein coupled receptor protein signalin.		
DR	InterPro; IPR000276; GPCR_Rhodopsin.		
DR	Pfam; PF00001; 7em 1.1.		
DR	PRINTS; PRO00237; GPCR_RHODOPSN.		
DR	PROSITE; PS00237; G-PROTEIN RECBP_F1_1; 1.		
DR	PROSITE; PS50262; G-PROTEIN RECBP_F1_2; 1.		
KW	G-protein coupled receptor; Receptor; Transmembrane.		
SEQUENCE	367 AA; BE88ECC26C103614 CRC64;		
QY	5 BAULLGLYVNLAVALLSNALVLLCAYSAELRTRASCGYLIVNLSGHILLAAALDMP 64		
QY	39 QAVIGLITVILLLITVIGVNLVTLAVTCHRKRT-VTNPFFISLACALSVGITVLPFAA 97		
Db	Query Match 12.2%; Score 227.5; DB 5; Length 391;		
Db	Best Local Similarity 20.9%; Prod. No. 5.e-11; Mismatches 77; Indels 53; Gaps 12;		
Db	Matches 77; Conservative 80; Mismatches 159; Delins 53; Gaps 12;		
QY	5 BAULLGLYVNLAVALLSNALVLLCAYSAELRTRASCGYLIVNLSGHILLAAALDMP 64		
Db	39 QAVIGLITVILLLITVIGVNLVTLAVTCHRKRT-VTNPFFISLACALSVGITVLPFAA 97		
QY	65 LGVNRGRTPSAPGACQVIGFLDTFLASNAALSAVTLSPDQWVAGRLRPRYAG 124		
Db	98 TNDLGYWFG-GYCDWVWSFDVNLSTASILNIVVIAIDRFLAITAPPYHTMTERAG 156		
QY	125 LLLGAWGGSLSATSGAAGCGSMWGYSSAFASCSVRLPDEPERPFRF--AAFTATHLHVGFL 181		
Db	157 ILLATWGLSLLVSLPQAGW-YRDQSEPAIYSDPCUCLIFTASTAYIVSLLISF 214		
QY	182 VLPVACITSLQVHVRARRHQCQMDTTMKALLADLHPSVTRQCLIQKRRR--- 236		
Db	215 YIPLLMLVYGLKAQDQARKINAELGR-----LEQENNRGKXIS 257		
QY	237 ---HTRATKIGIAATFLICFAPYMMRLAE-----LVPFTVNAQW-GILSKCILTYS 285		
Db	258 LAKEKKAKTLGLIMGFLICWLPEFVNIVNPFCDRCVQPAVEITALWGLNNSCF--- 314		
QY	286 KAVADPFTYSLRRLPFRQYLAGMV-HRLLKRFPRPASTHDSSLDVAGMVHQLKRTRP 343		
Db	315 ---NPIIYI-FNKEFRKVFRMVCCHCRGTVGP---NHADLNYDFVAMRLKKGENA 366		
QY	344 ASTHNSVD 352		
Db	367 NGTVNGDAN 375		
Search completed: May 18, 2004, 12:08:08 Job time : 48 secs			

GenCore version 5.1.6
 Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 18, 2004, 12:06:02 ; Search time 22 Seconds

(Without alignments)
 851.829 Million cell updates/sec

Title: US-10-049-569-2

Perfect score: 1858

Sequence: 1 MGGBAALLAGLVMVIALV.....ASTHNGSVDTENDSCLQQQTH 363

Scoring table: BLOSUM62

Gapext: 0.5

Scanned: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000
 Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Issued_Patents_AA.*

1: /cgn2_6/prodata/2/1aa/5A.COMB.pep:*

2: /cgn2_6/prodata/2/1aa/5B.COMB.pep:*

3: /cgn2_6/prodata/2/1aa/6A.COMB.pep:*

4: /cgn2_6/prodata/2/1aa/6B.COMB.pep:*

5: /cgn2_6/prodata/2/1aa/PCUTS.COMB.pep:*

6: /cgn2_6/prodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	848	45.6	337	2	US-09-013-634-2	Sequence 7, Appli
2	236	12.7	348	3	US-08-875-340-13	Sequence 13, Appli
3	236	12.7	348	4	US-09-171-456-17	Sequence 17, Appli
4	236	12.7	348	4	US-09-473-614-13	Sequence 13, Appli
5	232.5	12.5	359	2	US-08-748-685-5	Sequence 5, Appli
6	230.5	12.5	391	3	US-08-120-601B-8	Sequence 8, Appli
7	230.5	12.4	402	1	US-08-444-734A-6	Sequence 6, Appli
8	230.5	12.4	402	1	US-08-087-772A-15	Sequence 15, Appli
9	230.5	12.4	402	3	US-08-846-014-4	Sequence 4, Appli
10	230.5	12.4	408	1	US-07-916-901-2	Sequence 2, Appli
11	230.5	12.4	408	3	US-08-150-962-2	Sequence 2, Appli
12	230.5	12.4	408	3	US-08-050-962-5	Sequence 5, Appli
13	230.5	12.4	408	4	US-08-0848-631-2	Sequence 2, Appli
14	230.5	12.4	408	4	US-08-848-631-5	Sequence 5, Appli
15	229.5	12.4	425	4	US-09-479-128-2	Sequence 2, Appli
16	229.5	12.4	402	4	US-08-462-509B-2	Sequence 2, Appli
17	229.5	12.4	402	5	PCT-US95-05616-2	Sequence 2, Appli
18	229.5	12.4	425	3	US-08-146-704-2	Sequence 2, Appli
19	229.5	12.4	425	4	US-09-211-823C-22	Sequence 22, Appli
20	228.5	12.3	391	1	US-07-816-283-2	Sequence 2, Appli
21	228.5	12.3	391	1	US-07-816-283-4	Sequence 4, Appli
22	228.5	12.3	391	1	US-07-817-103-2	Sequence 2, Appli
23	228.5	12.3	391	1	US-08-417-103-4	Sequence 4, Appli
24	228.5	12.3	391	1	US-08-417-103-14	Sequence 14, Appli
25	228.5	12.3	477	1	US-07-911-336A-2	Sequence 2, Appli
26	228.5	12.3	477	1	US-08-383-181B-2	Sequence 2, Appli
27	228.5	12.3	477	2	US-07-969-267B-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1	US-09-013-634-2	Application US/08991946A
;	Sequence 7, Appli	
;	Patent No. 5945306	
;	GENERAL INFORMATION:	
;	APPLICANT: Bandman, Olga	
;	APPLICANT: Hillman, Jennifer L.	
;	APPLICANT: Guegler, Karl J.	
;	APPLICANT: Tang, Tom Y.	
;	APPLICANT: Corley, Neil C.	
;	TITLE OF INVENTION: RAS PROTEINS	
;	NUMBER OF SEQUENCES: 7	
;	CORRESPONDENCE ADDRESS:	
;	ADDRESSEE: Incyte Pharmaceuticals, Inc.	
;	STREET: 3174 Porter Dr.	
;	CITY: Palo Alto	
;	STATE: CA	
;	COUNTRY: USA	
;	ZIP: 94304	
;	COMPUTER READABLE FORM:	
;	MEDIUM TYPE: Diskette	
;	COMPUTER: IBM Compatible	
;	OPERATING SYSTEM: DOS	
;	SOFTWARE: FASTSEQ FOR WINDOWS Version 2.0	
;	CURRENT APPLICATION DATA:	
;	APPLICATION NUMBER: US/08/991,946A	
;	FILING DATE: December 16, 1997	
;	PRIOR APPLICATION DATA:	
;	APPLICATION NUMBER:	
;	PILING DATE:	
;	ATTORNEY/AGENT INFORMATION:	
;	NAME: Cerrone, Michael C.	
;	REGISTRATION NUMBER: 39,132	
;	REFERENCE DOCKET NUMBER: PF-0445 US	
;	TELECOMMUNICATION INFORMATION:	
;	TELEPHONE: 650-855-0555	
;	TELEFAX: 650-845-4166	
;	INFORMATION FOR SEQ ID NO: 7:	
;	SEQUENCE CHARACTERISTICS:	
;	LENGTH: 5 amino acids	
;	TYPE: amino acid	
;	STRANDEDNESS: Single	
;	TOPOLOGY: linear	
;	IMMEDIATE SOURCE:	
;	LIBRARY:	
;	CLONE:	
;	Sequence 2, Application US/09013634	
;	Patent No. 5945307	
;	GENERAL INFORMATION:	
;	APPLICANT: M. Alexandra Glucksmann and Keith Robison	

TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREFOR
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSE: LAHTE & COCKFIELD, LLP
 STREET: 28 State Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 00109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/013, 634
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Attorney, Jean M. Oliveri
 REGISTRATION NUMBER: 39, 030
 REFERENCE/DOCKET NUMBER: NNI-016
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 742-7400
 TELEFAX: (617) 742-4214
 SEQUENCE FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 337 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-013-634-2

Query Match 45.6%; Score 848; DB 2; Length 337;
 Best Local Similarity 52.0%; Pred. No. 9.6e-66;
 Matches 170; Conservative 52; Mismatches 101; Indels 4; Gaps 1;
 Query 1 MGPEALLAGLIVMVLAVALLSNALVLLCCAYSAELRTRASGVILVNLNSGHLLAALDM 60
 Db 1 MNSWDGLAGLIVMVLAVALLSNALVLLCCAYSAELRTRASGVILVNLNSGHLLAALDM 60
 Query 61 PFTLIGMVRGRTPSAAGCQVIGELDTFELSNAAALSAVAAASDOWLAVGFLRYAGRLLP 120
 Db 61 PFTLIGMVRGRTPSAAGCQVIGELDTFELSNAAALSAVAAASDOWLAVGFLRYAGRLLP 120
 Query 121 RYAGLILGCGQSLAFAQGCSWLGCGSSAFAFSCSLRPPFPEPRPFAFTATHAVG 180
 Db 121 RDAALMVAYTMLHALTEPAALALSWLGFQLYASCTLCSRDPERLRFAVFTGAFHALS 180
 Query 181 FVPLPLAVLCLTSLSQVERAHRHQRMDTVMKALLADHPSVQRCLIQQRERRHAT 240
 Db 181 FILSFVVLCCTYLKVKVRFCKRIVDTMQLVLYLVDHPSYRCLEBOERRRAT 240
 Query 241 RKGIAJATFLICFAPYVMTLAEILVPTVNAQGILSCLTSKAVADPFTYSLLRP 300
 Db 241 KKISTFGTFLVCPAPVIVRLVELFSTPFGSHNGVLSKCLAYSKAASDPFTYSLLRQ 300
 Query 301 FROVLAGMVRHLLKTRPRASTHDSL 327
 Db 301 YRKSCEILNRLHLR --- RSTHSSGL 323
 RESULT 2
 US-08-875-540-13
 ; Sequence 13, Application US/08875540A
 ; GENERAL INFORMATION:
 ; APPLICANT: Heath, Paul Roy
 ; APPLICANT: Orange, Paul Richard
 ; APPLICANT: Pearson, Ronald Carl Alan
 ; NUMBER OF SEQ ID NOS: 19
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 17
 ; LENGTH: 348
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-171-456-17

APPLICANT: Wright, Simon Ralph
 ; TITLE OF INVENTION: IMPROVEMENTS IN OR RELATING TO THE DETECTION OF VARIATIONS IN
 ; HUMAN H2 RECEPTORS
 ; FILE REFERENCE: 09347/002001
 ; CURRENT APPLICATION NUMBER: US/08/875, 540A
 ; CURRENT FILING DATE: 1998-01-05
 ; EARLIER APPLICATION NUMBER: PCT/EP96/00397
 ; EARLIER FILING DATE: 1997-01-30
 ; EARLIER APPLICATION NUMBER: GB9503866.7
 ; EARLIER FILING DATE: 1995-01-30
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO: 13
 ; LENGTH: 348
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-08-875-540-13
 Query Match 12.7%; Score 236; DB 3; Length 348;
 Best Local Similarity 24.1%; Pred. No. 9.8e-13;
 Matches 85; Conservative 60; Mismatches 146; Indels 62; Gaps 11;

Qy 12 IVMVNLAVLL --- SNALVLCCAYSAELRTRASGVILVNLNSGHLLAALDMPTLIGV 67
 Db 18 ITVVLVLLVLLITVAGNVVYCLAVGLNRIR-NLTNCFIVSЛАITDЛЛГЛVLPSAIVQ 76
 Qy 68 MRGRTPBAPGACQVIGELDTFELSNAAALSAVAAASDOWLAVGFLRYAGRLLP 127
 Db 77 LSCKWSEFGKVCNITYTSLDMLCASIUNFMSIDRYCAYMDPFPVLYLTPARVIAL 136
 Qy 128 GCAGWGSQLAFAQGCSWLGCGSS --- AFASCSLRLLPEPERPRAFTATHAVG 181
 Db 137 VLIWVSIITSLFSLIHMGNRSRNETSKGNHTTSKCNVQVN- --- EVYGLVDGLVTF 188
 Qy 182 VPLAVLCLTSQVERAHRHQRMDTVMKALLADHPSVQRCLIQQRERRHATR 241
 Db 189 YPLPLAVLCLTSQVERAHRHQRMDTVMKALLADHPSVQRCLIQQRERRHAT- --- REHRAV 231
 Qy 242 KIGIAJATFLICFAPYVMTLAEILVPTVNAQGILSCLTSKAVADPFTYSLLRP 293
 Db 232 TLAAVNGCFCWFPY- --- FTAVFVYRQLRGDDAINEMLAVLWLYGANSALNPIL 284
 Qy 294 YSLRERPR- --- QVLAGMVRHLLKTRPRASTHDSL - DYAGMVHOLLKRTPR 342
 Db 285 YAALNTRFRTGQQL- --- NSHKTSLSRNSASQLSRTQSRSRPR 330
 RESULT 3
 US-09-171-456-17
 ; Sequence 17, Application US/09171456A
 ; Patent No. 6346380
 ; GENERAL INFORMATION:
 ; APPLICANT: Wright, Simon Ralph
 ; APPLICANT: Heath, Paul Roy
 ; APPLICANT: Orange, Paul Richard
 ; APPLICANT: Pearson, Ronald Carl Alan
 ; TITLE OF INVENTION: DETECTION OF VARIATIONS IN HUMAN H2 RECEPTORS
 ; FILE REFERENCE: 09347/004001
 ; CURRENT APPLICATION NUMBER: US/09/171, 456A
 ; CURRENT FILING DATE: 1998-08-03
 ; EARLIER APPLICATION NUMBER: PCT/GB97/01075
 ; EARLIER FILING DATE: 1997-04-18
 ; NUMBER OF SEQ ID NOS: 19
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 17
 ; LENGTH: 348
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-171-456-17

12 LNVLAVAL --- SNALVLCAYSAELRPRASGVLLVNLISLGHLLAIDMPFTLLGV 67
 Qy 18 ITVVLAVLILITVAGNYVCLAVGLNRLR NLTNCFIVS LAITDILGLVLPSSAIYQ 76
 Db 68 MRGRTPSAPGACQVIGFLDTFLASNAALSVALSADQWLAIVGFPYRAGRPRVAGLL 127
 Qy 77 LSCKWSEFGKFCVNITYTSLDVMULTASLNLFMISLDRYCAMPDPLRVLPVTPARVAISL 136
 Qy 128 GCAGWQSLAFLSGAALGCSWLGYS --- AFASCSRLPPEPERPRAAFTLHAGF 181
 Db 137 VLIWVISITLSLISIHLGNSRNETSKGNHTSKCNCVQVN --- EYGLVDGLVTF 188
 Qy 182 VLPPLAVLCLTSLQVHRYARRHQRMDTVTMKALALIADLHPSVRQRCLQQKRHRATR 241
 Db 189 YPLLIMCITYTRIYRQARDQAKRDIHSSKAATI --- REHRATV 231
 Qy 242 KIGIAIAFLCIPAPYMTMTRIAELYFV --- TYNAGWGLSKCUTSKAVADPFT 293
 Db 232 TIAAVMGAFLICWPFY --- FTAVYGRGRGDDAINENLEAVLWLGANSALNPIL 284
 Qy 294 YSLLRRPFR --- QVLAGMVRHLKRTPRPASTHDSSL-DVGMVHOLLKTRPR 342
 Db 285 YAAALNRDFTGTYQQL --- NSHKTSLSRNSAQLSRTQSREPR 330

RESULT 5
 US-08-748-485-5
 Sequence 5, Application US/0848485
 i Patent No. 5817480
 i GENERAL INFORMATION:
 i APPLICANT: AU-Young, Janice
 i APPLICANT: Gueger, Karl J.
 i APPLICANT: Goli, Surya K.
 i APPLICANT: Murry, Lynn E.
 i TITLE OF INVENTION: NOVEL HISTAMINE H2 RECEPTOR
 i NUMBER OF SEQUENCES: 8
 i CORRESPONDENCE ADDRESS:
 i ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 i STREET: 3174 Porter Drive
 i CITY: Palo Alto
 i STATE: CA
 i COUNTRY: US
 i ZIP: 94304
 COMPUTER READABLE FORM:
 i MEDIUM TYPE: Diskette
 i COMPUTER: IBM Compatible
 i OPERATING SYSTEM: DOS
 i SOFTWARE: FASTSEQ Version 2.0
 CURRENT APPLICATION DATA:
 i APPLICATION NUMBER: US/08/748,485
 i FILING DATE: Herewith
 i CLASSIFICATION: 530
 i PRIORITY APPLICATION DATA:
 i APPLICATION NUMBER:
 i FILING DATE:
 i ATTORNEY/AGENT INFORMATION:
 i NAME: Billings, Lucy J.
 i REGISTRATION NUMBER: 36 749
 i REFERENCE/DOCKET NUMBER: PF-0159 US
 i TELECOMMUNICATION INFORMATION:
 i TELEPHONE: 415-555-0555
 i TELEFAX: 415-845-4166
 i TELEX:
 i INFORMATION FOR SEQ ID NO: 5:
 i SEQUENCE CHARACTERISTICS:
 i LENGTH: 359 amino acids
 i TYPE: amino acid
 i STRANDEDNESS: Single
 i TOPOLOGY: linear
 i IMMEDIATE SOURCE:
 i LIBRARY: GenBank
 i CLONE: 791239
 i US-08-748-485-5

Query Match 12.7% Score 236; DB 4; Length 348;
 Best Local Similarity 24.1%; Pred. No. 9.8e-13;
 Matches 85; Conservative 60; Mismatches 146; Indels 62; Gaps 11;
 SEQ ID NO 13

Query Match 12.7% Score 236; DB 4; Length 348;
 Best Local Similarity 24.1%; Pred. No. 9.8e-13;
 Matches 85; Conservative 60; Mismatches 146; Indels 62; Gaps 11;
 SEQ ID NO 13

Qy 12 LNVLAVAL --- SNALVLCAYSAELRPRASGVLLVNLISLGHLLAIDMPFTLLGV 67
 Db 18 ITVVLAVLILITVAGNYVCLAVGLNRLR NLTNCFIVS LAITDILGLVLPSSAIYQ 76
 Qy 68 MRGRTPSAPGACQVIGFLDTFLASNAALSVALSADQWLAIVGFPYRAGRPRVAGLL 127
 Db 77 LSCKWSEFGKFCVNITYTSLDVMULTASLNLFMISLDRYCAMPDPLRVLPVTPARVAISL 136
 Qy 128 GCAGWQSLAFLSGAALGCSWLGYS --- AFASCSRLPPEPERPRAAFTLHAGF 181
 Db 137 VLIWVISITLSLISIHLGNSRNETSKGNHTSKCNCVQVN --- EYGLVDGLVTF 188
 Qy 182 VLPPLAVLCLTSLQVHRYARRHQRMDTVTMKALALIADLHPSVRQRCLQQKRHRATR 241
 Db 189 YPLLIMCITYTRIYRQARDQAKRDIHSSKAATI --- REHRATV 231

Db 143 WVISITISFLSIHLGNNSRNETSKNDTTVKCKVQVN-----EVYGLVDGLVTFYLP 194
 Qy 185 LAVLCITSLQHVRARRHCCORMDTY-TMK2ALLADLHPSVRQCLQQRRRHRATKI 243
 Db 195 LLMICITYFRFKIAREQARRNHGSWKATI-----REHKATTL 236
 Db 244 GIAIAFLCICAPYVMTRLBLVPPV-----TVAQNGILSKCLTYSKAVADPFTYS 295
 Qy 237 AAVMGAFICLWFPY-----FTVFPVYRGKGDADVNEVFDVWLGYANSALNPILYA 289
 Qy 296 LLRRPPOVLAGMVRLLKTRPRPASTHDSL 327
 Db 290 ALNRRDFTAA--YHQLPCCRLASHNSHETSL 317

RESULT 6
 US-08-120-601B-8
 Sequence 8, Application US/08120601B
 Patent No. 6235496
 GENERAL INFORMATION:
 APPLICANT: YU, Lei
 TITLE OF INVENTION: MU OPIOID RECEPTORS: COMPOSITIONS AND
 METHODS
 NUMBER OF SEQUENCES: 9
 TITLE OF INVENTION: MU OPIOID RECEPTORS: COMPOSITIONS AND
 METHODS
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/120,601B
 FILING DATE: 13-SEP-1993
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Wilson, Mark B.
 REGISTRATION NUMBER: 37,259
 REFERENCE/DOCKET NUMBER: JINDA:002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3000
 TELEFAX: 512/414-7577
 SEQUENCE FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 391 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 US-08-120-601B-8

Db 225 LYTFILGFLLPVGAICL-----CVVLIIAKMERVALKAGWQ-----QRK 263
 Qy 234 RRRHTRATKIGIAIAFLCICAPYVMTRLBLV-----PFVYNAQNGILSKCLTYSKAVAD 290
 Db 264 RSERKTLTMVNNNNVVICMMPFTVQVLYNVAEQDDATVQS-----L5VILGYANS CAN 319
 Qy 291 PFTYSLJ-----RRPFPQL 305
 Db 320 PLYGFISDNFKRSFQRIL 338

RESULT 7
 US-08-444-734A-6
 Sequence 6, Application US/08444734A
 Patent No. 5610282
 GENERAL INFORMATION:
 APPLICANT: Sibley, David R.
 APPLICANT: Monama, Frederick J.
 APPLICANT: Mahan, Lawrence C.
 APPLICANT: McVirtue, Loris D.
 TITLE OF INVENTION: cDNA encoding the rat D1 dopamine
 receptor linked to adenylyl cyclase activation and
 expression of the receptor protein in Plasmid-transfected
 cell lines
 TITLE OF INVENTION: expression of the receptor protein in Plasmid-transfected
 cell lines
 NUMBER OF SEQUENCES: 13
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Knobbe, Martens, Olson and Bear
 STREET: 620 Newport Center Drive, Sixteenth Floor
 CITY: Newport Beach
 STATE: CA
 COUNTRY: USA
 ZIP: 92660
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/444,734A
 FILING DATE:
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/029,917
 FILING DATE: 03-MAR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/548,714
 FILING DATE: 06-JUL-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Altman, Daniel E.
 REGISTRATION NUMBER: 34,115
 REFERENCE/DOCKET NUMBER: NIH065.0.01FW1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (714) 760-0404
 TELEFAX: (714) 760-9502
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 400
 TYPE: amino acid
 STRANDEDNESS: Single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FRAGMENT TYPE: internal
 US-08-444-734A-6

Query Match 12.4%; Score 230.5; DB 1; Length 402;
 Best Local Similarity 24.9%; Pred. No. 3.5e-12;
 Matches 93; Conservative 61; Mismatches 154; Indels 65; Gaps 14;

Qy 2 GPGEARLILGLYVNU VALISNAWVLCYASALRTRASGVVLLVNLISGHLLIAIDM 60
 Db 54 QGSALLISIISFYSVVCLVGLCGNSKIVVILYARMKT-ATNTYTLNLAIADELL-MUSV 111
 Qy 61 PFTLICGVMRGTTPSAGACOVIKGFLDFTLSSNAALSVAAISADONLAVGFLPLVYAGRGP 120
 Db 112 PFLVTSLLRHPMPFGALICRIVLSDYANNFTSYCLTVLSDBYAVVPHITARYVRP 171
 Qy 121 RYAGLILGCAWQSL-----AFSGAALGCSWLGYSAAFASCSLRLPPBEPERFAFT 173
 Db 172 TVAKVNLGVVWTLSLVILPIVVFERTAN-----SDGTVACNM-LMPEPAQRWLVGFV 224
 Qy 174 ATLHAYGFVPLAIVGCLTSLOVHARRHOCRMIDTVMEALLADLHPSVRORCLQK 233
 Db 34 PWEAALRGAL---LALAVLATVGNNLIVIAINTPRLQT-MTNVFTVSLAAADIVMGLL 89

RESULT 8
 US-08-087-772A-15
 Sequence 15: Application US/0808772A
 Patent No. 5891155
 GENERAL INFORMATION:
 APPLICANT: Nalmias, Clara
 APPLICANT: Emorine, Jean L.
 APPLICANT: Stroberg, Douny A.
 TITLE OF INVENTION: Nucleotide Sequences Encoding the Murine
 Beta3-Adrenergic Receptor and Their Applications
 NUMBER OF SEQUENCES: 17
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bell, Seltzer, Park & Gibson
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: No. 5691155th Carolina
 COUNTRY: USA
 ZIP: 28234
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/087,772A
 FILING DATE:
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Linker, Raymond O.
 REGISTRATION NUMBER: 26,419
 PREFERENCE/DOCKET NUMBER: 3339-195
 TELECOMMUNICATION INFORMATION:
 TELEFAX: 919-881-3140
 INFORMATION FOR SEQ ID NO: 15:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 402 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: Peptide
 US-08-087-772A-15

Query Match Score 230.5; DB 1; Length 402;
 Best Local Similarity 24.9%; Fred. No. 3.5e-12;
 Matches 93; Conservative 61; Mismatches 154; Indels 65; Gaps 14;

RESULT 9
 US-08-087-704-4
 Sequence 4: Application US/08046704
 Patent No. 6020157
 GENERAL INFORMATION:
 APPLICANT: BERGMA, DERK J.
 APPLICANT: ELLIS, CATHERINE E.
 TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED
 NUMBER OF SEQUENCES: 4
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: RANTNER & PRESTIA
 STREET: P.O. Box 980
 CITY: VALLEY FORGE
 STATE: PA
 COUNTRY: USA
 ZIP: 19482
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: PBASEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/846,704
 FILING DATE: 30-APR-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 REFERENCE/DOCKET NUMBER: GH-70002
 TELECOMMUNICATION INFORMATION:
 NAME: PRESTIA, PAUL F.
 REGISTRATION NUMBER: 23,031
 TELEPHONE: 610-407-0700
 TELEFAX: 610-407-0701
 TELEX: 846169
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 402 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-0846-704-4

Query Match 12.4%; Score 230.5; DB 3; Length 402;
 Best Local Similarity 25.3%; Pred. No. 3.5e-12;
 Matches 94; Conservative 55; Mismatches 154; Indels 69; Gaps 13;

Qy 5 EALLGLVNVTLAVALLSNLVLCCAYSAELTRASGYLVNLSLGHLLALDMPTL 64
 Db 46 EWLIAAAYVAVFVVAALGVNTLVCLAVWNRHMHRT-VTNYFTVNLISLADVLTAAICPASL 104
 Qy 65 JGVMEGRTPAAGACQVIGLDTFLASNLALSVAALSADQWLVAVGPDRYAGRLPRYAG 124
 Db 105 LDVITESWLFGHALCKVIPVQAVSVSVAVLTSFLAIDWYAIChPLFKESTAR-RARG 163
 Qy 125 LLLGCAWGSIAFSGAALGCGSWLGSSAFAASCSCSLRPPPEPRPFAA--- 174
 Db 164 SILG-IWASLAI-----MVPQAAATMECSSLVPELARTRFLSVDERWADDLYPK 213
 Qy 175 TLHAYGFVLP-LAVLCLTSLOVHVRARRHICRQMDTVMKALA-----LLADL---- 220
 Db 214 IYHSCFPIVTVLAPGLMANAYFQIFRKLGQPGITSAVLWNWKRPSDQGDLEQGLS 273
 Qy 221 -HPSTVQRCLU--10QKRBRHRAFRKIGIAITFLICFAP-----YNTRLA--- 263
 Db 274 GEPOPRARATLAEVQMRARRKARTMLMVTLLVPAVCYLPSIVNLKRVFGMFRQASDR 333
 Qy 264 ELVPFVTVNQWGLSKLCTYSSKAVADPFTYSLRRPQQVL-----AGMTRLL 313
 Db 334 EAVYACETFFHW-----LYVANSAANPIYINFSGKREQKAFAFSCLPGTGPCCSLK 387
 Qy 314 KRTPRPASTIDS 325
 Db 388 APSRSSASHKS 399

RESULT 10
 US-07-916-901-2
 Sequence 2, Application US/07916901
 Patent No. 5364772
 GENERAL INFORMATION:
 APPLICANT: Granneman, James G.
 APPLICANT: Lahmers, Kristine N.
 APPLICANT: Rao, Donald D.
 TITLE OF INVENTION: @3-ADRENERGIC RECEPTOR PROTEIN AND DNA
 NUMBER OF SEQUENCES: 9
 CURRENT APPLICATION DATA:
 ADDRESSEE: REISING, ETHEINGTON, BARNARD, PERRY &
 STREET: 201 W. Big Beaver - Ste. 400; P.O. Box 4390
 CITY: TROY
 STATE: Michigan
 COUNTRY: USA
 ZIP: 48099
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/916,901
 FILING DATE: 19920720
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Kohn, Kenneth I.
 REGISTRATION NUMBER: 30,955
 REFERENCE/DOCKET NUMBER: B-324 (WSU)
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (313) 689-3554
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 408 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: linear

MOLECULE TYPE: protein
 US-07-916-901-2
 Query Match 12.4%; Score 230.5; DB 1; Length 408;
 Best Local Similarity 24.9%; Pred. No. 3.5e-12;
 Matches 93; Conservative 154; Indels 65; Gaps 14;

Qy 3 PGEALLGLVNVTLAVALLS---NALVLLCCAYSAELTRASGYLVNLSLGHLLAL 58
 Db 34 PWEAAAGAL---LALAATVGGNLVIAWPRQL-MINVFVTSLAAADIVMGLL 89
 Qy 59 DMPFTLIGVMGRTPAAGACQVIGLDTFLASNLALSVAALSADQWLVAVGPDRYAGRL 118
 Db 90 VVPPAATLALTGHWP-GATGCELTISVDCVTSIETCALADYLVATNPARYGALV 149
 Qy 119 RPRYACILLGCAWGSIAFSGAALGCGSW-LGYSSAFAASCSLRPPPEPRPFAATL 176
 Db 150 TKRCARTAVLVWVYSAVSFAPTMSQWRVGADEAQRC-----SNPRCCAFASNN 202
 Qy 177 -----HAVEGVLPFLAVLCLTSLOVHVARRH-----QWMDITVTKALA--- 215
 Db 203 PYVLLSSVSYPLIVMLPYVARYFVATQRLRQLRGEGLGRFPPEBSPAPSNSLAPAP 262
 Qy 216 ---LIADLHFSVRORCLICQRRRHRTRKIGIAITFLICPAPYMPRL-----AEL 265
 Db 263 VGTCAPEGVPGACGRPARLPLRERALCTLGLIMGTFLCWLPEFLVNLRLGGPSL 322
 Qy 266 VP---FVTVAQWGLSKLCTYSSKAVADPFTYSL---LRRPFRQVLAGVHRLKRTPRP 319
 Db 323 VGPAPALALN-W-----LGYANSAFNPLIYCRSPDFRSAAFRLLCRCORRL--PPEP 371
 Qy 320 ASTHDSSLDVAGM 332
 Db 372 CAAARPALFPGV 384

RESULT 11
 US-08-450-962-2
 Sequence 2, Application US/08450962
 Patent No. 624706
 GENERAL INFORMATION:
 APPLICANT: EMORINE, Laurent ; MARULLO, Stefano ;
 APPLICANT: STROBERG, Donny ;
 TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND
 TITLE OF INVENTION: GENES
 NUMBER OF SEQUENCES: 9
 CURRENT APPLICATION DATA:
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: KECK, MAHIN & CATE
 STREET: P.O. BOX 06110
 CITY: CHICAGO
 STATE: ILLINOIS
 COUNTRY: U.S.A.
 ZIP: 60606-0110
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3-1/2" diskette
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/450,962
 FILING DATE:
 CLASSIFICATION: 530
 PRIORITY APPLICATION DATA:
 PRIORITY APPLICATION NUMBER: 08/117,829
 FILING DATE: 08-SEPT-1993
 APPLICATION NUMBER: 07/721,571
 FILING DATE: 25-MAY-1990
 PRIORITY APPLICATION DATA:
 PRIORITY APPLICATION NUMBER: PCT/FRB9/00918
 FILING DATE: 25-MAY-1989
 ATTORNEY/AGENT INFORMATION:
 NAME: Fleit, Martin; Collin, Michael A.
 TYPE:
 REGISTRATION NUMBER: 16,900; 31,957

REFERENCE/DOCKET NUMBER: 47078-042
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 789-3400
 TELEFAX: (202) 789-1158
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 408 residues
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: polypeptide
 US-08-450-962-2

Query Match 12.4%; Score 230.5; DB 3; Length 408;
 Best Local Similarity 24.9%; Bred. No. 3.5e-12; Mismatches 154; Indels 65; Gaps 14;
 Matches 93; Conservative 61; Sequence ID NO: 5:

3 PEBALLAGLIVNLAVALLS---NALVLLCAYSAELRLRASGYLVNLSGHLLAL 58
 34 PMEAALAGAL---LALAVLAVTGGNLIVLIVIAWPAQLQTMTINVFVTSIAAALVMGIL 89
 59 DMPFTLIGVMGRTPSAPGACQVGFPLRYAGRL 118
 90 VVPPAATLALTGHWPUGATGELWTSVDLVCVTASETLCLAVRLATNPVRYGALV 149
 119 RPRYAGLIGGCAWGQSLAFAQGGSW-LIGYSSAFAFSCSLRLPPEPERPRAAFTATL 176
 150 TTKRCARTAVLWVVAAVSAPINSQWWVYGADEAQRCH-----SNRCCAFASN 202
 Qy 3 PGEALLAGLIVNLAVALLS---NALVLLCAYSAELRLRASGYLVNLSGHLLAL 58
 Db 34 PWEAALAGAL---LALAVLAVTGGNLIVLIVIAWPAQLQTMTINVFVTSIAAALVMGIL 89
 Qy 59 DMPFTLIGVMGRTPSAPGACQVGFPLRYAGRL 118
 Db 90 VVPPAATLALTGHWPUGATGELWTSVDLVCVTASETLCLAVRLATNPVRYGALV 149
 Qy 119 RPYAGLIGGCAWGQSLAFAQGGSW-LIGYSSAFAFSCSLRLPPEPERPRAAFTATL 176
 Db 150 TTKRCARTAVLWVVAAVSAPINSQWWVYGADEAQRCH-----SNRCCAFASN 202
 Qy 177 -----HAYGFTPLAVLCLTSLOVERVAREHC-----QRMDTVTMKAIA-- 215
 Db 203 BYVLLSSVSVYPLVPLVMLFTYARVVAATRQLRLRGEFLGRFPPEESPPAPSLAPAP 262
 Qy 216 ---LLADLHPSVRQRCLIQKQRHRHATRKGIAIAFLICPAPYVMTRL---AEI 265
 Db 263 VGTCAPEGVVAEGREPARLIPRLRERHALCTGLIMGTFILCWLFFLAVNLRALGGPGL 322
 Qy 266 VP---FVTVNQWGTLSKCLTYSKAVADPFTYSL---LRRPFRQVLAGVHRLKRTPP 319
 Db 323 VPGPAFLAN-W---LGYANAFNPLIYCRSPDPRSAFRRLCGRRL---PPEP 371
 Qy 320 ASTHDSSLDVAGM 332
 Db 372 CAAARPALFPSSGV 384

RESULT 12
 US-08-450-962-5
 Sequence 5, Application US/08450962
 Patent No. 624706
 GENERAL INFORMATION:
 APPLICANT: EMORINE, Laurent; MARULLO, Stefano;
 ADDRESS: STROSBERG, Donny
 TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 CITY: CHICAGO
 STATE: ILLINOIS
 COUNTRY: U.S.A.
 ZIP: 60606-0110
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3-1/2" diskette
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/450,962
 FILING DATE:
 PRIORITY APPLICATION DATA:

APPLICATION NUMBER: 08/117,829
 FILING DATE: 08-SEPT-1993
 APPLICATION NUMBER: 07721,571
 FILING DATE: 25-MAY-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/FR89/00918
 FILING DATE: 25-JAN-1989
 ATTORNEY/AGENT INFORMATION:
 NAME: Fleit, Martin; Golulin, Michael A.
 REGISTRATION NUMBER: 16,900; 31,957
 REFERENCE/DOCKET NUMBER: 47078-042
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 789-3400
 TELEFAX: (202) 789-1158
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 408 residues
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: polypeptide
 DESCRIPTION: Polypeptide
 US-08-450-962-5

Query Match 12.4%; Score 230.5; DB 3; Length 408;
 Best Local Similarity 24.9%; Bred. No. 3.5e-12; Mismatches 154; Indels 65; Gaps 14;
 Matches 93; Conservative 61; Sequence ID NO: 5:

Qy 3 PGEALLAGLIVNLAVALLS---NALVLLCAYSAELRLRASGYLVNLSGHLLAL 58
 Db 34 PWEAALAGAL---LALAVLAVTGGNLIVLIVIAWPAQLQTMTINVFVTSIAAALVMGIL 89
 Qy 59 DMPFTLIGVMGRTPSAPGACQVGFPLRYAGRL 118
 Db 90 VVPPAATLALTGHWPUGATGELWTSVDLVCVTASETLCLAVRLATNPVRYGALV 149
 Qy 119 RPYAGLIGGCAWGQSLAFAQGGSW-LIGYSSAFAFSCSLRLPPEPERPRAAFTATL 176
 Db 150 TTKRCARTAVLWVVAAVSAPINSQWWVYGADEAQRCH-----SNRCCAFASN 202
 Qy 177 -----HAYGFTPLAVLCLTSLOVERVAREHC-----QRMDTVTMKAIA-- 215
 Db 203 BYVLLSSVSVYPLVPLVMLFTYARVVAATRQLRLRGEFLGRFPPEESPPAPSLAPAP 262
 Qy 216 ---LLADLHPSVRQRCLIQKQRHRHATRKGIAIAFLICPAPYVMTRL---AEI 265
 Db 263 VGTCAPEGVVAEGREPARLIPRLRERHALCTGLIMGTFILCWLFFLAVNLRALGGPGL 322
 Qy 266 VP---FVTVNQWGTLSKCLTYSKAVADPFTYSL---LRRPFRQVLAGVHRLKRTPP 319
 Db 323 VPGPAFLAN-W---LGYANAFNPLIYCRSPDPRSAFRRLCGRRL---PPEP 371
 Qy 320 ASTHDSSLDVAGM 332
 Db 372 CAAARPALFPSSGV 384

RESULT 13
 US-08-450-962-2
 Sequence 2, Application US/08848631
 Patent No. 665442
 GENERAL INFORMATION:
 APPLICANT: EMORINE, Laurent; MARULLO, Stefano;
 ADDRESS: STROSBERG, Donny
 TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 CITY: CHICAGO
 STATE: ILLINOIS
 COUNTRY: U.S.A.
 ZIP: 60606-0110
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3-1/2" diskette
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/450,962
 FILING DATE:
 PRIORITY APPLICATION DATA:

ZIP: 60606-0110
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3-1/2" diskette
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/848,631
 FILING DATE: 08-Jun-1999
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/721,571
 FILING DATE: 25-MAY-1990
 APPLICATION NUMBER: PCT/FR89/00918
 FILING DATE: 25-JAN-1989
 ATTORNEY/AGENT INFORMATION:
 NAME: Fleit, Martin; Gollin, Michael A.
 REGISTRATION NUMBER: 16,900; 31,957
 REFERENCE/DOCKET NUMBER: 47078-042
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 789-3400
 TELEFAX: (202) 789-1158
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 408 residues
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: <Unknown>
 DESCRIPTION: Polypeptide
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 US-08-848-631-2

Query Match 14 Score 230.5; DB 4; Length 408;
 Best Local Similarity 24.9%; Pred. No. 3.5e-12;
 Matches 93; Conservative 61; Mismatches 154; Indels 65; Gaps 14;

Qy 3 PGEALLGLYMLVAVALLS---NVLVLCAYSAELRTRASGVLYNLSIGHILLAA
 Db 34 PWEEAAGA---LALAVLATGGNLVIVIAIAWTLQQT-MTNVEFVSLAAADIVMGIL 89

Qy 59 DMPFTLGVMRGRTPSAPGACQVIGLDTFLASNAALSALSADQWLVGPFPLRYA
 Db 90 VYPPAATLALTGHMPLGATGELWTSVDCVTVASITELCALDVRVYVPRYGA
 Qy 119 RPRYAGLGLGCAWGQSLIAFSGAIGSW---LGYSSAFASSSLRPPPEPRFAFTL 176
 Db 150 TKRCCARTAVLVWVVAASAPAPMSQWVNGADAEQRCRCH-----SNPRCCAFASNM 202

Qy 177 -----HAGFVYLPLAVLCLTSLOVERVARRHC-----QRMDDVVTMKA
 Db 203 PTVLSSSVSPFLPLVMLFVYARVFTVATQLRLGEGRFPBESPPAPSSLAP 262

Qy 216 -----LADLHPSVQRQCLQIQRERRTRAKIGIAATFLICFAPYVMTL-----APL 265
 Db 263 VOTCAPPBPVPGCRPARLLPLREHALLCTGLINGTFCLWLPFLANVLRAIGPSL 322

Qy 266 VP---FVTVNAQWGLSKCLTYSKAVADPFTYSL---LRFPRFOVLAGMWHRLKRTPRP 319
 Db 323 VPGPAFLAN---W-----LGTRANSAFNPLTYCRSDPDRSAFRRLCRCRRL---PPBP 371

Qy 320 ASTHDSSLDVDAGM 332
 Db 372 CAAARPALFPGV 384

RESULT 14
 US-08-848-31-5
 Sequence 5, Application US/08848631
 Patent No. 6615442
 GENERAL INFORMATION:
 APPLICANT: EMORINE, Laurent; MARULLO, Stefano;
 STROSBERG, Donny
 TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND
 MOUSE a3-ADRENERGIC RECEPTOR

```

US-09-479-128-2
; Sequence 2, Application US/09479128
; Patent No. 6119710
; GENERAL INFORMATION:
; APPLICANT: Berglind Þan Olafsdóttir
; APPLICANT: Jeffrey Gulcher
; TITLE OF INVENTION: HUMAN NARCOLEPSY GENE
; FILE REFERENCE: 2345.1005.001
; CURRENT APPLICATION NUMBER: US/09/479,128
; CURRENT FILING DATE: 2000-01-07
; PRIOR APPLICATION NUMBER: US/09/379,083
; PRIOR FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 2
; LENGTH: 425
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-479-128-2

Query Match 12 4%; Score 230 5; DB 4; Length 425;
Best Local Similarity 25.3%; Pred. No. 3.7e-12; Gaps 13;
Matches 94; Conservative 55; Mismatches 154; Indels 69; Gaps 13;
Matches 94; Conservative 55; Mismatches 154; Indels 69; Gaps 13;

Qy 5 EALLAGLIVMVALLSNVALVLCACCAELTRASGVLLVNLSLGHLLAALDMPPTL 64
Db 46 EWVLLIAAYAAFFVVALVQVNTLCLAVWRNHMRT VTNYFIVNVLSLADYLVTAICLPSL 104
Qy 65 LGVMRGRTPSPAGCAGCIGDTFLASNLASVVALISADQWNLNGFPDYGAGRPRYAG 124
Db 105 LYDITTESWLFGFHALKVTPVQAVSVAVTLTSPALDRWYALCHPLFKSTAR-RARG 163
Qy 125 ILLGCAGWGSQISIAFSGAIGCAGCAGGSSAFASCSLPPERPRFAA-----PTA 174
Db 164 SLLG_IWAVSLAI-----MVDQAAVNCSSVLPPELARPTLFSVCDERWADDLYPK 213
Qy 175 T1HAVGFLVP_LAVLCLTSLOVHRVARRHCCRMDITVTKALA-----LLAFL----- 220
Db 214 IYHSCFFIVTLPAPGLMANYFQIFRKLMGRQIPTGTSALVRAWKRPSDLQGLEQGILS 273
Qy 221 -HPSVQRCL---I0QKRRRHRATKIGIAATLFCFAP-----YNTVRLA--- 263
Db 274 GEPQPRAFPLAEVKMRKRTAKMVLVFLVACIYPLISVNLKRVFGMFRQASDR 333
Qy 264 ELPFPVNAQWGLSKCLTYSKAVADPFTYSLLRPFRQVL-----AGMVHRL 313
Db 334 EAVYACFTESW-----LYVANSANPILYFLSGKFREQQKAFAFSCCLPGLGPGCSLJK 387
Qy 314 EKTPRPASTHDS 325
Db 368 APSPRSSASHKS 399

```

Search completed: May 18, 2004, 12:09:16
 Job time : 24 secs